

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Revision Date 09.04.2018

Version 2.1

---

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Catalogue No. 632271

Product name Chromatin Immunoprecipitation (ChIP) Assay Kit

ChIP Dilution Buffer

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Biochemical research/analysis  
For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

**1.3 Details of the supplier of the safety data sheet**

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone: +49 6151 72-0

Responsible Department LS-QHC \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

**1.4 Emergency telephone number** Please contact the regional company representation in your country.

---

**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2, H319

Chronic aquatic toxicity, Category 3, H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)***Hazard pictograms**Signal word*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

Warning

## *Hazard statements*

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

## *Precautionary statements*

Prevention

P273 Avoid release to the environment.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling (≤125 ml)

*Hazard pictograms*



*Signal word*

Warning

*Hazard statements*

H412 Harmful to aquatic life with long lasting effects.

## 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

Chemical nature	Aqueous solution
-----------------	------------------

### 3.1 Substance

Not applicable

### 3.2 Mixture

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

## Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
---------	---------------------	----------------

Triton-X-100 ( $\geq 1\%$  -  $< 2,5\%$ )

9002-93-1      \*)

Acute toxicity, Category 4, H302

Skin irritation, Category 2, H315

Serious eye damage, Category 1, H318

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H410

M-Factor: 10

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

irritant effects

Vomiting, Dermatitis

Risk of corneal clouding.

Drying-out effect resulting in rough and chapped skin.

Risk of serious damage to eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

## SECTION 5. Firefighting measures

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

## 5.1 Extinguishing media

### *Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

## 5.3 Advice for firefighters

### *Special protective equipment for firefighters*

In the event of fire, wear self-contained breathing apparatus.

### *Further information*

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Suppress (knock down) gases/vapours/mists with a water spray jet.

---

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

---

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### *Advice on safe handling*

Observe label precautions.

#### *Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

## *Storage conditions*

Tightly closed.

Recommended storage temperature see product label.

The data applies to the entire pack.

## **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

## **SECTION 8. Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### **Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Safety glasses

#### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet(>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### *Other protective equipment*

protective clothing

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

## *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## **Environmental exposure controls**

Do not let product enter drains.

---

## **SECTION 9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	clear colourless
Odour	No strong odour known.
Odour Threshold	No information available.
pH	8,0 - 8,2 at 20 °C
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

---

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

no information available

### 10.6 Hazardous decomposition products

no information available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit
	ChIP Dilution Buffer

---

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

##### *Acute oral toxicity*

Symptoms: Vomiting, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit., Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute toxicity estimate: > 2.000 mg/kg

Calculation method

##### *Acute inhalation toxicity*

Symptoms: Possible damages:, mucosal irritations

##### *Acute dermal toxicity*

This information is not available.

##### *Skin irritation*

This information is not available.

##### *Eye irritation*

Mixture causes serious eye irritation.

##### *Sensitisation*

This information is not available.

##### *Germ cell mutagenicity*

This information is not available.

##### *Carcinogenicity*

This information is not available.

##### *Reproductive toxicity*

This information is not available.

##### *Teratogenicity*

This information is not available.

##### *Specific target organ toxicity - single exposure*

This information is not available.

##### *Specific target organ toxicity - repeated exposure*

This information is not available.

##### *Aspiration hazard*

This information is not available.

### 11.2 Further information

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

#### Components

*Triton-X-100*



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

#### *Acute oral toxicity*

LD50 Rat: 1.900 - 5.000 mg/kg (External MSDS) The value is given in analogy to the following substances:

#### *Acute dermal toxicity*

LD50 Rabbit: > 3.000 mg/kg (External MSDS) The value is given in analogy to the following substances:

#### *Skin irritation*

Rabbit

Result: irritating

OECD Test Guideline 404

The value is given in analogy to the following substances:

#### *Sensitisation*

Sensitisation test: human

Result: negative

(External MSDS) The value is given in analogy to the following substances:

#### *Germ cell mutagenicity*

##### *Genotoxicity in vitro*

Mutagenicity (mammal cell test):

Mouse lymphoma test

Result: negative

(Lit.)

---

## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

#### *Triton-X-100*

##### *Toxicity to fish*

semi-static test LC50 *Leuciscus idus* (Golden orfe): 0,26 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203 The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Daphnia magna* (Water flea): 0,011 mg/l; 48 h (ECOTOX Database) The value is given in analogy to the following substances:

##### *Toxicity to algae*

static test EC50 *Pseudokirchneriella subcapitata* (green algae): 1,9 mg/l; 96 h (ECHA) The value is given in analogy to the following substances:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

*Toxicity to fish (Chronic toxicity)*

flow-through test Danio rerio (zebra fish): 0,012 mg/l

Analytical monitoring: yes

OECD Test Guideline 210 The value is given in analogy to the following substances:

*Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

semi-static test NOEC Daphnia magna (Water flea): 0,03 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 202 The value is given in analogy to the following substances:

*Biodegradability*

22 %; 28 d; aerobic

OECD Test Guideline 301C

The value is given in analogy to the following substances:

Not readily biodegradable.

*M-Factor*

10

---

## SECTION 13. Disposal considerations

*Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

---

## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### Sea transport (IMDG)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### *EU regulations*

Major Accident Hazard	SEVESO III
Legislation	Not applicable

96/82/EC  
Dangerous for the environment  
9b  
Quantity 1: 200 t  
Quantity 2: 500 t

Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
---------------------------	--

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
---	---------------

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
---	---------------

Substances of very high concern (SVHC)	This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 59 above the respective regulatory concentration limit of > 0.1 % (w/w).
--	---

Contains: Triton-X-100

#### *National legislation*

Storage class	10 - 13
---------------	---------

The data applies to the entire pack.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

---

## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

#### *Hazard pictograms*



#### *Signal word*

Warning

#### *Hazard statements*

H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### *Precautionary statements*

##### Prevention

P273 Avoid release to the environment.

##### Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit ChIP Dilution Buffer

---

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Millipore Ref. 17-295

## Regional representation

This information is given on the authorised Safety Data Sheet for your country.

---

*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 09.04.2018

Version 2.1

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit

Low Salt Immune Complex Wash Buffer

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Biochemical research/analysis For additional information on uses please refer to the Merck Chemicals portal ( <a href="http://www.merckgroup.com">www.merckgroup.com</a> ).
-----------------	--

### 1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: <a href="mailto:prodsafe@merckgroup.com">prodsafe@merckgroup.com</a>

1.4 Emergency telephone number	Please contact the regional company representation in your country.
--------------------------------	---

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2, H319

Chronic aquatic toxicity, Category 3, H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

**Labelling.(REGULATION (EC) No 1272/2008)**

*Hazard pictograms*



*Signal word*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

Warning

## *Hazard statements*

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

## *Precautionary statements*

Prevention

P273 Avoid release to the environment.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Reduced labelling (≤125 ml)**

*Hazard pictograms*



*Signal word*

Warning

*Hazard statements*

H412 Harmful to aquatic life with long lasting effects.

## 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

Chemical nature                      Aqueous solution of inorganic and organic compounds.

### 3.1 Substance

Not applicable

### 3.2 Mixture

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

## Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
---------	---------------------	----------------

Triton-X-100 ( $\geq 1\%$  -  $< 2,5\%$ )

9002-93-1      \*)

Acute toxicity, Category 4, H302

Skin irritation, Category 2, H315

Serious eye damage, Category 1, H318

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H410

M-Factor: 10

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Risk of serious damage to eyes.

irritant effects, Dermatitis, Vomiting

Risk of corneal clouding.

Drying-out effect resulting in rough and chapped skin.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

---



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

## *Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

### **5.3 Advice for firefighters**

#### *Special protective equipment for firefighters*

In the event of fire, wear self-contained breathing apparatus.

#### *Further information*

none

---

## **SECTION 6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **6.2 Environmental precautions**

No special precautionary measures necessary.

### **6.3 Methods and materials for containment and cleaning up**

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

---

## **SECTION 7. Handling and storage**

### **7.1 Precautions for safe handling**

#### *Advice on safe handling*

Observe label precautions.

#### *Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### *Storage conditions*

Tightly closed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

Recommended storage temperature see product label.

The data applies to the entire pack.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### *Eye/face protection*

Safety glasses

##### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

##### *Other protective equipment*

protective clothing

##### *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Environmental exposure controls

No special precautionary measures necessary.

---

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	liquid
Colour	No information available.
Odour	No strong odour known.
Odour Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	soluble
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

---

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

Strong oxidizing agents, Strong acids

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

no information available

### 10.6 Hazardous decomposition products

no information available

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

#### *Acute oral toxicity*

Symptoms: Vomiting, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit., Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute toxicity estimate: > 2.000 mg/kg

Calculation method

#### *Acute inhalation toxicity*

Symptoms: Possible damages:, mucosal irritations

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

## *Acute dermal toxicity*

This information is not available.

## *Skin irritation*

This information is not available.

## *Eye irritation*

Mixture causes serious eye irritation.

## *Sensitisation*

This information is not available.

## *Germ cell mutagenicity*

This information is not available.

## *Carcinogenicity*

This information is not available.

## *Reproductive toxicity*

This information is not available.

## *Teratogenicity*

This information is not available.

## *Specific target organ toxicity - single exposure*

This information is not available.

## *Specific target organ toxicity - repeated exposure*

This information is not available.

## *Aspiration hazard*

This information is not available.

## 11.2 Further information

We have no description of any symptoms of toxicity.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## Components

### *Triton-X-100*

#### *Acute oral toxicity*

LD50 Rat: 1.900 - 5.000 mg/kg (External MSDS) The value is given in analogy to the following substances:

#### *Acute dermal toxicity*

LD50 Rabbit: > 3.000 mg/kg (External MSDS) The value is given in analogy to the following substances:

#### *Skin irritation*

Rabbit

Result: irritating

OECD Test Guideline 404

The value is given in analogy to the following substances:

#### *Sensitisation*

Sensitisation test: human

Result: negative

(External MSDS) The value is given in analogy to the following substances:

#### *Germ cell mutagenicity*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

*Genotoxicity in vitro*  
Mutagenicity (mammal cell test):  
Mouse lymphoma test  
Result: negative  
(Lit.)

---

## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

#### *Triton-X-100*

##### *Toxicity to fish*

semi-static test LC50 *Leuciscus idus* (Golden orfe): 0,26 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203 The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Daphnia magna* (Water flea): 0,011 mg/l; 48 h (ECOTOX Database) The value is given in analogy to the following substances:

##### *Toxicity to algae*

static test EC50 *Pseudokirchneriella subcapitata* (green algae): 1,9 mg/l; 96 h (ECHA) The value is given in analogy to the following substances:

##### *Toxicity to fish (Chronic toxicity)*

flow-through test *Danio rerio* (zebra fish): 0,012 mg/l

Analytical monitoring: yes

OECD Test Guideline 210 The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

semi-static test NOEC *Daphnia magna* (Water flea): 0,03 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 202 The value is given in analogy to the following substances:

##### *Biodegradability*

22 %; 28 d; aerobic

OECD Test Guideline 301C

The value is given in analogy to the following substances:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

Not readily biodegradable.

*M-Factor*  
10

---

## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

---

## SECTION 14. Transport information

### Land transport (ADR/RID)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### *EU regulations*

Major Accident Hazard	SEVESO III
Legislation	Not applicable

96/82/EC  
Dangerous for the environment  
9b  
Quantity 1: 200 t  
Quantity 2: 500 t

Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
---------------------------	--

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
---	---------------

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
---	---------------

Substances of very high concern (SVHC)	This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 59 above the respective regulatory concentration limit of > 0.1 % (w/w).
--	---

Contains: Triton-X-100

## National legislation

Storage class 10 - 13

The data applies to the entire pack.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

---

## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Training advice

Provide adequate information, instruction and training for operators.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit Low Salt Immune Complex Wash Buffer

---

## Labelling

### *Hazard pictograms*



### *Signal word*

Warning

### *Hazard statements*

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

### *Precautionary statements*

#### Prevention

P273 Avoid release to the environment.

#### Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Millipore Ref. 17-295

## Regional representation

This information is given on the authorised Safety Data Sheet for your country.

---

*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 09.04.2018

Version 2.1

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit

High Salt Immune Complex Wash Buffer

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Biochemical research/analysis For additional information on uses please refer to the Merck Chemicals portal ( <a href="http://www.merckgroup.com">www.merckgroup.com</a> ).
-----------------	--

### 1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: <a href="mailto:prodsafe@merckgroup.com">prodsafe@merckgroup.com</a>

1.4 Emergency telephone number	Please contact the regional company representation in your country.
--------------------------------	---

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2, H319

Chronic aquatic toxicity, Category 3, H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

**Labelling.(REGULATION (EC) No 1272/2008)**

*Hazard pictograms*



*Signal word*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

Warning

## *Hazard statements*

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

## *Precautionary statements*

Prevention

P273 Avoid release to the environment.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Reduced labelling (≤125 ml)**

*Hazard pictograms*



*Signal word*

Warning

*Hazard statements*

H412 Harmful to aquatic life with long lasting effects.

## 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

Chemical nature                      Aqueous solution of inorganic and organic compounds.

### 3.1 Substance

Not applicable

### 3.2 Mixture

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

## Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
---------	---------------------	----------------

Triton-X-100 ( $\geq 1\%$  -  $< 2,5\%$ )

9002-93-1      \*)

Acute toxicity, Category 4, H302

Skin irritation, Category 2, H315

Serious eye damage, Category 1, H318

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H410

M-Factor: 10

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Risk of serious damage to eyes.

irritant effects, Dermatitis, Vomiting

Risk of corneal clouding.

Drying-out effect resulting in rough and chapped skin.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

## *Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

### **5.3 Advice for firefighters**

#### *Special protective equipment for firefighters*

In the event of fire, wear self-contained breathing apparatus.

#### *Further information*

Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

## **SECTION 6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

---

## **SECTION 7. Handling and storage**

### **7.1 Precautions for safe handling**

#### *Advice on safe handling*

Observe label precautions.

#### *Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### *Storage conditions*

Tightly closed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

Recommended storage temperature see product label.

The data applies to the entire pack.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### *Eye/face protection*

Safety glasses

##### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

##### *Other protective equipment*

protective clothing

##### *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Environmental exposure controls

Do not let product enter drains.

---

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	No strong odour known.
Odour Threshold	No information available.
pH	8,0 - 8,2 at 20 °C
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

---

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

Strong oxidizing agents, Strong acids

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

no information available

### 10.6 Hazardous decomposition products

no information available

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

#### *Acute oral toxicity*

Symptoms: Vomiting, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit., Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute toxicity estimate: > 2.000 mg/kg

Calculation method



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

## *Acute inhalation toxicity*

Symptoms: Possible damages: mucosal irritations

## *Acute dermal toxicity*

This information is not available.

## *Skin irritation*

This information is not available.

## *Eye irritation*

Mixture causes serious eye irritation.

## *Sensitisation*

This information is not available.

## *Germ cell mutagenicity*

This information is not available.

## *Carcinogenicity*

This information is not available.

## *Reproductive toxicity*

This information is not available.

## *Teratogenicity*

This information is not available.

## *Specific target organ toxicity - single exposure*

This information is not available.

## *Specific target organ toxicity - repeated exposure*

This information is not available.

## *Aspiration hazard*

This information is not available.

## 11.2 Further information

We have no description of any symptoms of toxicity.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## Components

### *Triton-X-100*

#### *Acute oral toxicity*

LD50 Rat: 1.900 - 5.000 mg/kg (External MSDS) The value is given in analogy to the following substances:

#### *Acute dermal toxicity*

LD50 Rabbit: > 3.000 mg/kg (External MSDS) The value is given in analogy to the following substances:

#### *Skin irritation*

Rabbit

Result: irritating

OECD Test Guideline 404

The value is given in analogy to the following substances:

#### *Sensitisation*

Sensitisation test: human

Result: negative

(External MSDS) The value is given in analogy to the following substances:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

*Germ cell mutagenicity*  
*Genotoxicity in vitro*  
Mutagenicity (mammal cell test):  
Mouse lymphoma test  
Result: negative  
(Lit.)

---

## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

#### *Triton-X-100*

##### *Toxicity to fish*

semi-static test LC50 *Leuciscus idus* (Golden orfe): 0,26 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203 The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Daphnia magna* (Water flea): 0,011 mg/l; 48 h (ECOTOX Database) The value is given in analogy to the following substances:

##### *Toxicity to algae*

static test EC50 *Pseudokirchneriella subcapitata* (green algae): 1,9 mg/l; 96 h (ECHA) The value is given in analogy to the following substances:

##### *Toxicity to fish (Chronic toxicity)*

flow-through test *Danio rerio* (zebra fish): 0,012 mg/l

Analytical monitoring: yes

OECD Test Guideline 210 The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

semi-static test NOEC *Daphnia magna* (Water flea): 0,03 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 202 The value is given in analogy to the following substances:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

## *Biodegradability*

22 %; 28 d; aerobic

OECD Test Guideline 301C

The value is given in analogy to the following substances:

Not readily biodegradable.

## *M-Factor*

10

---

## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

---

## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### Sea transport (IMDG)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### *EU regulations*

Major Accident Hazard Legislation	SEVESO III Not applicable
-----------------------------------	------------------------------

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

96/82/EC  
Dangerous for the environment  
9b  
Quantity 1: 200 t  
Quantity 2: 500 t

Occupational restrictions      Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that      not regulated  
deplete the ozone layer

Regulation (EC) No 850/2004 of the European      not regulated  
Parliament and of the Council of 29 April 2004 on  
persistent organic pollutants and amending  
Directive 79/117/EEC

Substances of very high concern (SVHC)      This product does contain substances of  
very high concern according to Regulation  
(EC) No 1907/2006 (REACH), Article 59  
above the respective regulatory  
concentration limit of > 0.1 % (w/w).  
Contains: Triton-X-100

## National legislation

Storage class      10 - 13  
The data applies to the entire pack.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

---

## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Training advice

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit High Salt Immune Complex Wash Buffer

---

Provide adequate information, instruction and training for operators.

## Labelling

*Hazard pictograms*



*Signal word*

Warning

*Hazard statements*

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

*Precautionary statements*

Prevention

P273 Avoid release to the environment.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Millipore Ref. 17-295

## Regional representation

This information is given on the authorised Safety Data Sheet for your country.

---

*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 09.04.2018

Version 2.1

---

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit

LiCl Immune Complex Wash Buffer

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Biochemical research/analysis For additional information on uses please refer to the Merck Chemicals portal ( <a href="http://www.merckgroup.com">www.merckgroup.com</a> ).
-----------------	--

### 1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: <a href="mailto:prodsafe@merckgroup.com">prodsafe@merckgroup.com</a>

1.4 Emergency telephone number	Please contact the regional company representation in your country.
--------------------------------	---

---

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation.

### 2.2 Label elements

Labelling.(REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Safety data sheet available on request.

### 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

Chemical nature	Aqueous solution
-----------------	------------------

### 3.1 Substance

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

Not applicable

## 3.2 Mixture

### Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
---------	---------------------	----------------

Lithium chloride ( $\geq 1\%$  -  $< 3\%$ )

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

7447-41-8	01-2119560574-35-XXXX	Acute toxicity, Category 4, H302 Skin irritation, Category 2, H315 Eye irritation, Category 2, H319
-----------	-----------------------	---

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

## 5.3 Advice for firefighters

*Special protective equipment for firefighters*

In the event of fire, wear self-contained breathing apparatus.

*Further information*

Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

---

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

*Advice on safe handling*

Observe label precautions.

*Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Tightly closed.

Recommended storage temperature see product label.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

The data applies to the entire pack.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL)

##### *Lithium chloride (7447-41-8)*

Worker DNEL, acute	Systemic effects	dermal	100 mg/kg Body weight
Worker DNEL, acute	Systemic effects	inhalation	30 mg/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	dermal	73,2 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	10 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	dermal	72,3 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	10 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	oral	7,32 mg/kg Body weight

#### Predicted No Effect Concentration (PNEC)

##### *Lithium chloride (7447-41-8)*

PNEC Fresh water	10,4 mg/l
PNEC Fresh water sediment	49,9 mg/kg
PNEC Marine water	1,004 mg/l
PNEC Marine sediment	4,99 mg/kg
PNEC Soil	4,13 mg/kg
PNEC Sewage treatment plant	140,2 mg/l

### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### *Eye/face protection*

Safety glasses

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

## *Hand protection*

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (splash contact), KCL 741 Dermatril® L (full contact).

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

## *Other protective equipment*

protective clothing

## *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## **Environmental exposure controls**

Do not let product enter drains.

---

## **SECTION 9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	clear colourless
Odour	No strong odour known.
Odour Threshold	No information available.
pH	8,0 - 8,2 at 20 °C
Melting point	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

---

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

## 10.4 Conditions to avoid

no information available

## 10.5 Incompatible materials

no information available

## 10.6 Hazardous decomposition products

no information available

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

##### *Acute oral toxicity*

Acute toxicity estimate: > 2.000 mg/kg

Calculation method

##### *Acute inhalation toxicity*

This information is not available.

##### *Acute dermal toxicity*

This information is not available.

##### *Skin irritation*

This information is not available.

##### *Eye irritation*

This information is not available.

##### *Sensitisation*

This information is not available.

##### *Germ cell mutagenicity*

This information is not available.

##### *Carcinogenicity*

This information is not available.

##### *Reproductive toxicity*

This information is not available.

##### *Teratogenicity*

This information is not available.

##### *Specific target organ toxicity - single exposure*

This information is not available.

##### *Specific target organ toxicity - repeated exposure*

This information is not available.

##### *Aspiration hazard*

This information is not available.

### 11.2 Further information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit
	LiCl Immune Complex Wash Buffer

---

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance. Hazardous properties cannot be excluded, but are relatively improbable due to the low concentration of the dissolved substance(s).  
Handle in accordance with good industrial hygiene and safety practice.

## Components

### *Lithium chloride*

#### *Acute oral toxicity*

LD50 Rat: 526 mg/kg (RTECS)

#### *Acute inhalation toxicity*

LC50 Rat: > 5,57 mg/l; 4 h ; aerosol

OECD Test Guideline 403

#### *Acute dermal toxicity*

LD50 Rat: > 2.000 mg/kg

OECD Test Guideline 402

#### *Skin irritation*

Rabbit

Result: Irritations

(IUCLID)

#### *Eye irritation*

Rabbit

Result: Eye irritation

OECD Test Guideline 405

#### *Sensitisation*

Buehler Test Guinea pig

Result: negative

Method: OECD Test Guideline 406

#### *Germ cell mutagenicity*

#### *Genotoxicity in vitro*

Ames test

Result: negative

(Lit.)

---

## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

#### *Lithium chloride*

##### *Toxicity to fish*

static test LC50 *Oncorhynchus mykiss* (rainbow trout): 158 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203

##### *Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Daphnia magna* (Water flea): 249 mg/l; 48 h

OECD Test Guideline 202

##### *Toxicity to algae*

static test EC50 *Desmodesmus subspicatus* (green algae): > 400 mg/l; 72 h

OECD Test Guideline 201

#### *Biodegradability*

The methods for determining the biological degradability are not applicable to inorganic substances.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

---

## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

---

## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
-------------	--

### Sea transport (IMDG)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### *EU regulations*

Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply
	SEVESO III
	Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
---	---------------

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
---	---------------

Substances of very high concern (SVHC)	This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 59 above the respective regulatory concentration limit of > 0.1 % (w/w).
Contains:	polymer of ethylene glycol and nonylphenol (ca.10 EO)

#### *National legislation*

Storage class	10 - 13
---------------	---------

The data applies to the entire pack.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit LiCl Immune Complex Wash Buffer

---

---

## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### Training advice

Provide adequate information, instruction and training for operators.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Millipore Ref. 17-295

### Regional representation

This information is given on the authorised Safety Data Sheet for your country.

---

*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*



**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Revision Date 09.04.2018

Version 2.1

---

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Catalogue No. 632271

Product name Chromatin Immunoprecipitation (ChIP) Assay Kit

0.5M EDTA

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Biochemical research/analysis  
For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

**1.3 Details of the supplier of the safety data sheet**

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0

Responsible Department LS-QHC \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

**1.4 Emergency telephone number** Please contact the regional company representation in your country.

---

**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2, H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements****Labelling.(REGULATION (EC) No 1272/2008)***Hazard pictograms**Signal word*

Warning

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

## *Hazard statements*

H319 Causes serious eye irritation.

## *Precautionary statements*

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling (≤125 ml)

*Hazard pictograms*



*Signal word*

Warning

## 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

Chemical nature	Aqueous solution
-----------------	------------------

### 3.1 Substance

Not applicable

### 3.2 Mixture

#### **Hazardous components (REGULATION (EC) No 1272/2008)**

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
---------	---------------------	----------------

Ethylenediaminetetraacetic acid ( $\geq 10\%$  -  $< 20\%$ )

60-00-4      \*)

Eye irritation, Category 2, H319

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

irritant effects, gastric pain, Nausea, Vomiting

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

nitrogen oxides

### 5.3 Advice for firefighters

*Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

## *Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

## **SECTION 6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

---

## **SECTION 7. Handling and storage**

### **7.1 Precautions for safe handling**

#### *Advice on safe handling*

Observe label precautions.

#### *Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### *Storage conditions*

Tightly closed.

Recommended storage temperature see product label.

The data applies to the entire pack.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

## **SECTION 8. Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 632271  
Product name Chromatin Immunoprecipitation (ChIP) Assay Kit  
0.5M EDTA

---

## Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

## Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

### *Eye/face protection*

Safety glasses

### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

### *Other protective equipment*

protective clothing

### *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Environmental exposure controls

Do not let product enter drains.

---

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	liquid
------	--------

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

Colour	clear colourless
Odour	No strong odour known.
Odour Threshold	No information available.
pH	7,2 at 20 °C
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

---

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

Strong oxidizing agents, Strong bases

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

Copper, Copper alloys, Nickel

### 10.6 Hazardous decomposition products

in the event of fire: See section 5.

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

#### *Acute oral toxicity*

Symptoms: gastric pain, Nausea, Vomiting

#### *Acute inhalation toxicity*

Symptoms: Possible symptoms:, mucosal irritations

#### *Acute dermal toxicity*

This information is not available.

#### *Skin irritation*

This information is not available.

#### *Eye irritation*

Mixture causes serious eye irritation.

#### *Sensitisation*

This information is not available.

#### *Germ cell mutagenicity*

This information is not available.

#### *Carcinogenicity*

This information is not available.

#### *Reproductive toxicity*

This information is not available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

## *Teratogenicity*

This information is not available.

## *Specific target organ toxicity - single exposure*

This information is not available.

## *Specific target organ toxicity - repeated exposure*

This information is not available.

## *Aspiration hazard*

This information is not available.

## 11.2 Further information

After uptake:

Damage to:

Kidney

disturbed electrolyte balance.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## Components

### *Ethylenediaminetetraacetic acid*

#### *Acute oral toxicity*

LD50 Rat: 4.500 mg/kg

OECD Test Guideline 401

#### *Skin irritation*

Rabbit

Result: No irritation

(ECHA)

#### *Eye irritation*

Rabbit

Result: Eye irritation

(ECHA)

#### *Sensitisation*

Maximisation Test Guinea pig

Result: negative

Method: OECD Test Guideline 406

The value is given in analogy to the following substances:

#### *Germ cell mutagenicity*

##### *Genotoxicity in vivo*

Chromosome aberration test

Mouse

male

Oral

Result: negative

Method: OECD Test Guideline 474

The value is given in analogy to the following substances:

##### *Genotoxicity in vitro*

Mutagenicity (mammal cell test):

Result: positive

(IUCLID)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit
	0.5M EDTA

---

---

## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

*Additional ecological information*

Discharge into the environment must be avoided.

### Components

#### *Ethylenediaminetetraacetic acid*

##### *Toxicity to fish*

LC50 *Lepomis macrochirus* (Bluegill sunfish): 41 mg/l; 96 h (in soft water) (IUCLID)

##### *Toxicity to daphnia and other aquatic invertebrates*

EC50 *Daphnia magna* (Water flea): 113 mg/l; 48 h (ECOTOX Database)

##### *Toxicity to bacteria*

static test EC20 activated sludge: > 500 mg/l; 30 min

OECD Test Guideline 209 The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

semi-static test NOEC *Daphnia magna* (Water flea): 25 mg/l; 21 d  
(ECHA)

##### *Biodegradability*

3 %; 30 d; aerobic

OECD Test Guideline 301D

Not readily biodegradable.

< 20 %; 28 d

OECD Test Guideline 302B

Not readily eliminated from water.

##### *Ratio BOD/ThBOD*

BOD5 < 1 %

(IUCLID)

##### *Partition coefficient: n-octanol/water*

log Pow: 0,13

(experimental)

Bioaccumulation is not expected. (ECHA)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

---

## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

---

## SECTION 14. Transport information

### Land transport (ADR/RID)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### *EU regulations*

Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply

SEVESO III  
Not applicable

Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
---------------------------	--

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
---	---------------

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
---	---------------

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).

*National legislation*

Storage class 10 - 13

The data applies to the entire pack.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

---

## SECTION 16. Other information

**Full text of H-Statements referred to under sections 2 and 3.**

H319 Causes serious eye irritation.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

*Hazard pictograms*



*Signal word*

Warning

*Hazard statements*

H319 Causes serious eye irritation.

*Precautionary statements*

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit 0.5M EDTA

---

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Millipore Ref. 17-295

## Regional representation

This information is given on the authorised Safety Data Sheet for your country.

---

*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 09.04.2018

Version 2.1

---

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No. 632271

Product name Chromatin Immunoprecipitation (ChIP) Assay Kit

SDS Lysis Buffer

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Biochemical research/analysis  
For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

### 1.3 Details of the supplier of the safety data sheet

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone: +49 6151 72-0

Responsible Department LS-QHC \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

1.4 Emergency telephone number Please contact the regional company representation in your country.

---

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation.

### 2.2 Label elements

Labelling.(REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Safety data sheet available on request.

### 2.3 Other hazards

None known.

---

## SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution of inorganic and organic compounds.

### 3.1 Substance

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

Not applicable

## 3.2 Mixture

### Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
---------	---------------------	----------------

dodecyl sulphate sodium salt ( $\geq 1\%$ - $< 2,5\%$ )		
---	--	--

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

151-21-3	01-2119489461-32-XXXX	Flammable solid, Category 2, H228 Acute toxicity, Category 4, H302 Skin irritation, Category 2, H315 Serious eye damage, Category 1, H318 Specific target organ toxicity - single exposure, Category 3, H335 Chronic aquatic toxicity, Category 3, H412
----------	-----------------------	--

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

We have no description of any symptoms of toxicity.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

---

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

## *Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

### **5.3 Advice for firefighters**

#### *Special protective equipment for firefighters*

In the event of fire, wear self-contained breathing apparatus.

#### *Further information*

Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

## **SECTION 6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

---

## **SECTION 7. Handling and storage**

### **7.1 Precautions for safe handling**

#### *Advice on safe handling*

Observe label precautions.

#### *Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### *Storage conditions*

Tightly closed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 632271  
Product name Chromatin Immunoprecipitation (ChIP) Assay Kit  
SDS Lysis Buffer

---

Recommended storage temperature see product label.

The data applies to the entire pack.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL)

##### *dodecyl sulphate sodium salt (151-21-3)*

Worker DNEL, longterm	Systemic effects	dermal	4060 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	285 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	dermal	2440 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	85 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	oral	24 mg/kg Body weight

#### Predicted No Effect Concentration (PNEC)

##### *dodecyl sulphate sodium salt (151-21-3)*

PNEC Fresh water	0,137 mg/l
PNEC Marine water	0,0137 mg/l
PNEC Aquatic intermittent release	0,055 mg/l
PNEC Sewage treatment plant	1084 mg/l
PNEC Fresh water sediment	4,82 mg/kg
PNEC Marine sediment	0,482 mg/kg
PNEC Soil	0,882 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### *Eye/face protection*

Safety glasses

---



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 632271  
Product name Chromatin Immunoprecipitation (ChIP) Assay Kit  
SDS Lysis Buffer

---

## *Hand protection*

full contact:

Glove material: Nitrile rubber  
Glove thickness: 0,11 mm  
Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber  
Glove thickness: 0,11 mm  
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

## *Other protective equipment*

protective clothing

## *Respiratory protection*

Not required; except in case of aerosol formation.

## **Environmental exposure controls**

Do not let product enter drains.

---

## **SECTION 9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	No strong odour known.
Odour Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	at 20 °C soluble
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

---

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

no information available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit
	SDS Lysis Buffer

---

## 10.6 Hazardous decomposition products

no information available

---

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

##### *Acute oral toxicity*

Acute toxicity estimate: > 2.000 mg/kg

Calculation method

##### *Acute inhalation toxicity*

This information is not available.

##### *Acute dermal toxicity*

This information is not available.

##### *Skin irritation*

This information is not available.

##### *Eye irritation*

This information is not available.

##### *Sensitisation*

This information is not available.

##### *Germ cell mutagenicity*

This information is not available.

##### *Carcinogenicity*

This information is not available.

##### *Reproductive toxicity*

This information is not available.

##### *Teratogenicity*

This information is not available.

##### *Specific target organ toxicity - single exposure*

This information is not available.

##### *Specific target organ toxicity - repeated exposure*

This information is not available.

##### *Aspiration hazard*

This information is not available.

### 11.2 Further information

Hazardous properties cannot be excluded, but are relatively improbable due to the low concentration of the dissolved substance(s).

Handle in accordance with good industrial hygiene and safety practice.

#### Components

*dodecyl sulphate sodium salt*

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

*Acute oral toxicity*

LD50 Rat: 977 mg/kg  
OECD Test Guideline 401

*Acute dermal toxicity*

LD50 Rabbit: > 2.000 mg/kg  
OECD Test Guideline 402

*Skin irritation*

Rabbit  
Result: Irritations  
OECD Test Guideline 404

*Eye irritation*

Rabbit  
Result: Irreversible effects on the eye  
OECD Test Guideline 405

*Sensitisation*

Maximisation Test  
Result: negative  
(IUCLID)

*Germ cell mutagenicity*

*Genotoxicity in vitro*  
Ames test  
Salmonella typhimurium  
Result: negative  
Method: OECD Test Guideline 471

*Mutagenicity (mammal cell test):*

Mouse lymphoma test  
Result: negative  
Method: OECD Test Guideline 476

---

## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

*dodecyl sulphate sodium salt*

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

## *Toxicity to fish*

flow-through test LC50 Pimephales promelas (fathead minnow): 29 mg/l; 96 h  
OECD Test Guideline 203

flow-through test NOEC Pimephales promelas (fathead minnow): > 1,357 mg/l; 42 d (ECHA)

## *Toxicity to daphnia and other aquatic invertebrates*

EC0 E.sulcatum: 40 mg/l; 72 h (Lit.)

EC50 Daphnia magna (Water flea): 6 mg/l; 48 h (IUCLID)

## *Toxicity to algae*

static test EC50 Desmodesmus subspicatus (green algae): 53 mg/l; 72 h  
DIN 38412

## *Toxicity to bacteria*

microtox test EC50 Photobacterium phosphoreum: 0,46 mg/l; 30 min (IUCLID)

EC50 activated sludge: 130 mg/l; 3 h  
OECD Test Guideline 209

## *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

flow-through test NOEC Ceriodaphnia dubia (water flea): 0,88 mg/l; 7 d

US-EPA

## *Biodegradability*

95 %; 28 d; aerobic  
OECD Test Guideline 301B  
Readily biodegradable

## *Ratio BOD/ThBOD*

BOD5 99 %  
(Lit.)

## *Partition coefficient: n-octanol/water*

log Pow: <= -2,03 (20 °C)  
OECD Test Guideline 107

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

---

## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

---

## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

### Inland waterway transport (ADN)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

Not relevant

## Air transport (IATA)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

## Sea transport (IMDG)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport regulations.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

---

## SECTION 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### *EU regulations*

Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply
	SEVESO III
	Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
---	---------------

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
---	---------------

Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1$ % (w/w).
--	--

#### *National legislation*

Storage class	10 - 13
---------------	---------

The data applies to the entire pack.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	632271
Product name	Chromatin Immunoprecipitation (ChIP) Assay Kit SDS Lysis Buffer

---

---

## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Training advice

Provide adequate information, instruction and training for operators.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).  
Millipore Ref. 17-295

### Regional representation

This information is given on the authorised Safety Data Sheet for your country.

---

*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*