

according to Regulation (EC) No. 1907/2006

Revision Date 27.01.2017

Version 3.5

SECTION 1. Identification of the substance/mixture and of the company/undertaking			
1.1 Product identifier			
Catalogue No.	808803		
Product name	Zinc(II) acetylacetonate for synthesis		
REACH Registration Number	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.		
CAS-No.	14024-63-6		
1.2 Relevant identified uses of th	e substance or mixture and uses advised against		
Identified uses	Chemical for synthesis For additional information on uses please refer to the Merck Chemicals portal (www.merckgroup.com).		
1.3 Details of the supplier of the s	safety data sheet		
Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0		
Responsible Department	LS-QHC * e-mail: 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)

according to Regulation (EC) No. 1907/2006

Catalogue No.808803Product nameZinc(II) acetylacetonate for synthesis

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

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.





Signal word Warning

CAS-No. 14024-63-6

2.3 Other hazards

None known.

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SECTION 3. Composition/information on ingredients

3.1 Substance

Formula	C₁₀H₁₄O₄Zn (Hill)
EC-No.	237-860-3
Molar mass	263,61 g/mol

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

Chemical Name (Concentration)

*)

CAS-No. Registration number Classification zinc(II) acetylacetonate (<= 100 %)

14024-63-6

Eye irritation, Category 2, H319

*) 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.

3.2 Mixture

Not applicable

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.

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4.2 Most important symptoms and effects, both acute and delayed

irritant effects

The following applies to zinc compounds in general: only slightly absorbable via the gastrointestinal tract. Adstringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities.

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 Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Combustible.

Risk of dust explosion.

Development of hazardous combustion gases or vapours possible in the event of fire.

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: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

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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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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. Dry.

Recommended storage temperature see product label.

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

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

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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).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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).

Other protective equipment protective clothing

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Respiratory protection

required when dusts are generated.

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

The entrepeneur 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	powder, finecrystalline
Colour	yellow
Odour	odourless
Odour Threshold	Not applicable
рН	10 at 4 g/l 20 °C
Melting point/range	124 - 126 °C
Boiling point/boiling range	129 - 131 °C at 13 hPa
Flash point	No information available.

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Evaporation rate	No information available.
Elammahility (solid, gas)	No information available.
Flammability (solid, gas)	
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	1 hPa
	at 20 °C
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	6,9 g/l at 20 °C
Partition coefficient: n-	log Pow: -0,94
octanol/water	(calculated)
	Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Decomposition temperature	
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other data

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Catalogue No. Product name	808803 Zinc(II) acetylacetonate for synthesis
Ignition temperature	580 °C
Bulk density	500 kg/m3

SECTION 10. Stability and reactivity

10.1 Reactivity

Risk of dust explosion.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

no information available

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

Acute oral toxicity This information is not available.

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity

This information is not available.

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Product name	Zinc(II) acetylacetonate for synthesis
Skin irritation	
slight irritation	
Eye irritation	
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 - sin	gle exposure
This information is not available.	
Specific target organ toxicity - rep	peated exposure
This information is not available.	
Aspiration hazard	
This information is not available.	
11.2 Further information	
	pounds in general: only slightly absorbable v

I he following applies to zinc compounds in general: only slightly absorbable via the gastrointestinal tract. Adstringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

No information available.

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12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: -0,94 (calculated)

Bioaccumulation is not expected.

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.

SECTION 13. Disposal considerations

Waste treatment methods

See 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

SE	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.	

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atalogue No.	808803	
roduct name	Zinc(II) acetylace	etonate for synthesis
14.1 - 14.6	Not classified as	dangerous in the meaning of transport
	regulations.	
-	ording to Annex II of MAR	POL 73/78 and the IBC Code
Not relevant		
SECTION 15. Regulatory inform	nation	
15.1 Safety, health and enviro	nmental regulations/legis	slation specific for the substance or mixture
EU regulations		
Major Accident Hazard	SEVESO III	
Legislation	Not applicable	
Occupational restrictions	Take note of Dir 94/3	3/EC on the protection of young people at
	work.	
Regulation (EC) No 1005/2	009 on substances that	not regulated
deplete the ozone layer		
Regulation (EC) No 850/20	04 of the European	not regulated
Parliament and of the Cour	ncil of 29 April 2004 on	
persistent organic pollutant	s and amending	
Directive 79/117/EEC		
Substances of very high co	ncern (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 ≥ 0.1 % (w/w).
National legislation		

15.2 Chemical Safety Assessment

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

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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.

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.

Regional representation

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

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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.