

Revision Date 21.11.2010

Version 3.3

1. Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier		
Catalogue No.	818672	
Product name	2,2-Dichloroacetamide 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.	
1.2 Relevant identified uses of the 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.merck-chemicals.com).	
1.3 Details of the supplier of the safety data sheet		
Company Responsible Department	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0 LS-QHC * e-mail: prodsafe@merckgroup.com	
1.4 Emergency telephone number	Please contact the regional company representation in your country.	

2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Skin irritation, Category 2, H315 Eye irritation, Category 2, H319 For the full text of the H Statements mentioned in this Section .see Section :

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

Classification (67/548/EEC or 1999/45/EC)

Xi; R36/38 For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation.

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Precautionary statements P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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 CAS-No. 683-72-7 Labelling (67/548/EEC or 1999/45/EC) Symbol(s) Irritant Xi R-phrase(s) 36/38 Irritating to eyes and skin. No suitable data for toxicological evaluation are available. A classification according to corresponding categories of danger as specified in Directive 67/548/EEC and laid down in the legislation of the country concerned can therefore not be made. In this context, hazardous properties can therefore not be excluded. EC-No. 211-674-2 Reduced labelling (≤125 ml) Symbol(s) Irritant Xi 2.3 Other hazards None known.

3. Composition/information on ingredients

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Formula		Cl ₂ CHCONH ₂	C₂H₃Cl₂NO (Hill)
CAS-No.		683-72-7	
EC-No.		211-674-2	
Molar mass		127,95 g/mol	

4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air. Consult doctor if feeling unwell.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

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

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

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4.3 Indication of immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Carbon dioxide (CO₂), Foam, 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 material, Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: Hydrogen chloride gas, nitrogen oxides

5.3 Advice for firefighters

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

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. 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 empty into 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 7.2 and 10.5). 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.

7. Handling and storage

- 7.1 Precautions for safe handling Observe label precautions.
- 7.2 Conditions for safe storage, including any incompatibilities
 - Tightly closed. Dry.

Store at +15°C to +25°C.

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7.3 Specific end uses

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

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.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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
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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).

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic 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 empty into drains.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties Form crystals

	Form	crystals
	Colour	white
	Odour	odourless
	Odour Threshold	No information available.
	рН	No information available.
	Melting point	96 - 99 °C
	Boiling point/boiling range	233 - 234 °C
	Flash point	No information available.
	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.
	Relative density	No information available.
	Water solubility	71 g/l at 20 °C
	Partition coefficient: n- octanol/water	log Pow: 0,19 Method: (experimental) (Lit.) Bioaccumulation is not expected (log Pow <1).
	Autoignition temperature	No information available.
	Decomposition temperature	No information available.
	Viscosity, dynamic	No information available.
	Explosive properties	No information available.
	Oxidizing properties	No information available.
9.2 Other data		
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10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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:

Strong oxidizing agents, strong reducing agents, Strong acids, Bases

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See chapter 5.

11. Toxicological information

11.1 Information on toxicological effects *Skin irritation* Irritations

Causes skin irritation.

Eye irritation Irritations

Causes serious eye irritation.

Specific target organ toxicity - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard No aspiration toxicity classification

11.2 Further information

Further information

Quantitative data on the toxicity of this product are not available.

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

12.1 Toxicity

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Toxicity to fish LC50 Species: Pimephales promelas (fathead minnow) Dose: 241 mg/l Exposure time: 96 h (ECOTOX Database)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: 0,19 Method: (experimental) (Lit.) Bioaccumulation is not expected (log Pow <1).

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 Do not allow to run into surface waters, wastewater, or soil.

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.

14. Transport information

ADR/RID

UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (DICHLORACETAMID), 6.1, II

ΙΑΤΑ

UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (DICHLORACETAMID), 6.1, II

IMDG

UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (DICHLORACETAMID), 6.1, II EmS F-A S-A

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

15. Regulatory information

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

<i>EU regulations</i> Major Accident Hazard Legislation	96/82/EC Directive 96/82/EC does not apply
Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
National legislation	

Storage class VCI 10 - 13 Other liquids and solids

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15.2 Chemical Safety Assessment

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

16. Other information

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

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Full text of R-phrases referred to under sections 2 and 3

R36/38 Irritating to eyes and skin.

Training advice

Provide adequate information, instruction and training for operators.

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

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.

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.