Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.05.2011 Revision: 19.05.2011

1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name 1,3-Dimethyl-2-imidazolidinone

Stock number: EINECS Number: A16001, L02186 201-304-8

Relevant identified uses of the substance or mixture and uses advised against
Sector of Use SU24 Scientific research and development

Sector of Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Benzstrasse 3 Derizstrasse 3 D-76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

www.alfa.com

Product safety department.
Product Safety Department +049 (0) 7275 988687-0 (business hours)
Carechem 24: +44 (o) 1235 239 670 (Multi-language 24 hour emergency)
Giftnotruf Universität Mainz / Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240 Informing department: Emergency telephone number:

2 Hazards identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS07

Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R21/22: Harmful in contact with skin and if swallowed.

Xi; Irritant

R36/38: Irritating to eyes and skin.

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The substance is classified and labelled according to the CLP regulation.

GHS06

Signal word

Hazard statements

Precautionary statements

Danger
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361 Remove/Take off immediately all contaminated clothing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
P405 Store locked up.
Dispose of contents/container in accordance with local/regional/national/international

Other hazards

Results of PBT and vPvB assessment PBT: Not applicable. Not applicable. vPvB:

3 Composition/information on ingredients

Chemical characterization: Substances

(CAS#) Designation: Identification number(s):

1,3-Dimethyl-2-imidazolidinone (CAS# 80-73-9)

EINECS Number: 201-304-8

4 First aid measures

After skin contact After eye contact After swallowing

Description of first aid measures

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. After inhalation

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents
Special hazards arising from the substance
or mixture

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

Advice for firefighters Protective equipment: Wear self-contained breathing apparatus.

Wear full protective suit.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Reference to other sections

Environmental precautions: Methods and material for containment and

cleaning up:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7 Handling and storage

Handling Precautions for safe handling

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against

explosions and fires:

Keep ignition sources away - Do not smoke.

Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and

containers: Information about storage in one common storage facility:

No special requirements.

Store away from oxidizing agents.

Store away from water.

Further information about storage

conditions:

This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water.

8 Exposure controls/personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with critical values that require monitoring at the workplace:
Additional information:

Not required. No data

Exposure controls

Personal protective equipment
General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

Use breathing protection with high concentrations.

Breathing equipment: Eye protection:

Body protection:

Safety glasses
Face protection
Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance: Form: Colour: Liquid Colourless Smell: Not determined Odour threshold: Not determined pH-value: Not determined.

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 8°C 224-226°C Not determined

93°C Flash point: Inflammability (solid, gaseous) Not applicable.

Ignition temperature:

305°C

Decomposition temperature:

Not determined

Self-inflammability:

Not determined. Product is not explosive.

Critical values for explosion:

Danger of explosion:

Lower: 1.3 Vol % Upper: 8.4 Vol % <1 hPa

Steam pressure at 20°C: Density at 20°C Relative density 1.058 g/cm³ Not determined. Vapour density Evaporation rate Not determined. Not determined.

Solubility in / Miscibility with

Fully miscible Not determined. Segregation coefficient (n-octanol/water):

Viscosity: dynamic at 25°C: 1.944 mPas kínematic: Not determined

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(Contd. of page 2) Other information No further relevant information available

10 Stability and reactivity

Reactivity Chemical stability Thermal decomposition / conditions to be

Possibility of hazardous reactions Incompatible materials:

No decomposition if used and stored according to specifications.

No dangerous reactions known Oxidizing agents Acid chlorides

Water/moisture

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hazardous decomposition products:

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

LD50 1260 mg/kg (rat) Oral Dermal LD50

986 mg/kg (rabbit) Irritation of eyes severe 100 mg (rabbit)

Primary irritant effect: on the skin: on the eye: Sensitization: Irritant effect.

Additional toxicological information:

No further relevant information available. No further relevant information available. No further relevant information available

No further relevant information available.

Irritant for skin and mucous membranes.

No sensitizing effect known.

Danger by skin resorption.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information

Toxicity

Acquatic toxicity: Persistence and degradability Behaviour in environmental systems:

Bioaccumulative potential Mobility in soil

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

Results of PBT and vPvB assessment PBT: vPvB: Other adverse effects

No further relevant information available.

13 Disposal considerations

Waste treatment methods Recommendation

Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.

Not applicable. Not applicable.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



ADR/RID-GGVS/E Class: 6.1 (T1) Toxic substances.

Kemler Number: UN-Number: Packaging group: 60 2810 III

UN proper shipping name: Limited quantities (LQ) 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1,3-Dimethyl-2-imidazolidinone)

Transport category
Tunnel restriction code

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: UN Number: 2810 Label Packaging group: Marine pollutant:

TOXIC LIQUID, ORGANIC, N.O.S. (1,3-Dimethyl-2-imidazolidinone) Correct technical name:

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: UN/ID Number: 6.1 2810 Label Packaging group:

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TOXIC LIQUID, ORGANIC, N.O.S. (1,3-Dimethyl-2-imidazolidinone) Correct technical name:

UN "Model Regulation":

Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

UN2810, TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III Warning: Toxic substances.

Not applicable.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No

1272/2008

The substance is classified and labelled and labelled according to the substance is classified and labelled according to the substance or mixture.

Hazard pictograms

The substance is classified and labelled according to the CLP regulation.

GHS06

Signal word

Danger
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361 Remove/Take off immediately all contaminated clothing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard statements

Precautionary statements

National regulations

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. Information about limitation of use:

Water hazard class 1 (Self-assessment): slightly hazardous for water. A Chemical Safety Assessment has not been carried out. Water hazard class: Chemical safety assessment:

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet:
Contact:

Abbreviations and acronyms:

Abbreviations and acronyms are acronyms and acronyms