

Substance key: SXR089131

Revision Date: 08.06.2015

Version : 4 - 2 / EU

Date of printing : 12.06.2015

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

1.1. Product identifier

Trade name

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Material number: 107600

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

Relevant identified uses of the substance or mixture

Industry sector : Functional Fluids

Type of use : Brine for refrigeration

1.3. Details of the supplier of the safety data sheet

Identification of the company

Clariant Produkte (Deutschland) GmbH

65926 Frankfurt am Main

Telephone no. : +49 69 305 18000

Information about the substance/mixture

Corp Product Stewardship

e-mail: MSDS.CorpPS_BU_ICCS@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Not a hazardous substance or mixture.

2.2. Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Not a hazardous substance or mixture.

2.3. Other hazards

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Chemical characterization

Propane-1,2-diol (CASRN 57-55-6) with corrosion inhibitors

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove/Take off immediately all contaminated clothing.
Move the victim to fresh air.

After inhalation

If inhaled, remove to fresh air.
Get medical advice/ attention.

After contact with skin

In case of contact, immediately flush skin with plenty of water.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Get medical attention immediately.

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

Symptoms

No symptoms known currently.

Hazards

No hazards known at this time.

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

Treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet
Alcohol-resistant foam
Dry powder

5.2. Special hazards arising from the substance or mixture

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
Nitrogen oxides (NOx)

5.3. Advice for firefighters

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Special protective equipment for firefighting

Self-contained breathing apparatus

Further information

Wear suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Can be landfilled or incinerated, when in compliance with local regulations.

6.4. Reference to other sections

Additional information

Information regarding Safe handling, see chapter 7.

For personal protection see section 8.

Information regarding Waste Disposal, see chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures necessary if stored and handled as prescribed.

Hygiene measures

Keep away from food and drink.

Advice on protection against fire and explosion

Observe the general rules of industrial fire protection

7.2. Conditions for safe storage, including any incompatibilities

Advice on storage compatibility

Keep away from oxidizing agents.

Do not store with strong alkalies.

7.3. Specific end use(s)

No further recommendations.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure limit values

Exposure limit values are not available.

DNEL/DMEL values

DNEL/DMEL values are not available.

PNEC values

PNEC values are not available.

8.2. Exposure controls

General protective measures

Do not inhale vapours

Respiratory protection :

Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
Full mask to standard DIN EN 136
Filter A (organic gases and vapours) to standard DIN EN 141
The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume. Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

Hand protection :

Long-term exposure
Impervious butyl rubber gloves
Minimum breakthrough time / gloves : 480 min
Minimum thickness / gloves 0,7 mm
For short-term exposure (splash protection):
Nitrile rubber gloves.
Minimum breakthrough time / gloves : 30 min
Minimum thickness / gloves 0,4 mm
These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection :

Safety glasses

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	liquid
Form :	Liquid
Particle size : :	Not applicable

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Colour :	blue
Odour :	perceptible
Odour threshold :	not tested.
pH value :	approx. 9 (20 °C, 300 g/l) Method : DIN 19268
Melting point :	approx. -58 °C Method : DIN 51583
Boiling point :	approx. 155 °C (1.013 hPa) Method : ASTM D 1120
Flash point :	approx. 105 °C Method : ASTM D6450 (closed cup)
Evaporation rate :	not tested.
Lower explosion limit :	2,6 %(V) Source : IUCLID Data relate to solvent
Upper explosive limit :	12,6 %(V) Source : IUCLID Data relate to solvent
Combustion number :	Not applicable
Minimum ignition energy :	not tested.
Vapour pressure :	< 0,01 kPa (20 °C) Method : Calculated by Syracuse.
Vapour density relative to air :	not tested.
Solubility in water :	(20 °C) miscible
Soluble in ... :	fat not tested.
Octanol/water partition coefficient (log Pow) :	Not applicable
Ignition temperature :	> 450 °C Method : DIN 51794
Self-ignition temperature :	The substance or mixture is not classified as self heating.
Thermal decomposition :	> 250 °C Method : DSC Measurement under nitrogen
Viscosity (dynamic) :	approx. 62 mPa.s Method : calculated
Viscosity (kinematic) :	approx. 59 mm ² /s (20 °C) Method : DIN 51562

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Explosive properties : Explosive according to EU supply regulations : no data available

Oxidizing properties : Not applicable

9.2. Other information

Density : approx. 1,043 g/cm³ (20 °C)
Method : DIN 51757

Bulk density : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with strong alkalis.
Incompatible with oxidizing agents.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

not known

10.6. Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information related to the product itself:

Acute oral toxicity : LD50 > 5.000 mg/kg (Rat)
Method : OECD Test Guideline 423
By analogy with a product of similar composition

Acute dermal toxicity : not tested.

Acute inhalation toxicity : not tested.

Irritant effect on skin : not determined

Irritant effect on eyes : not determined

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Sensitization :	not tested.
Repeated dose toxicity:	not tested.
Assessment of mutagenicity :	No information available.
Assessment of carcinogenicity :	No information available.
Assessment of toxicity to reproduction :	No information available.
Assessment of teratogenicity :	No information available.
Specific target organ toxicity (STOT) - single exposure :	not tested.
Specific target organ toxicity (STOT) - repeated exposure :	not tested.

Remarks

The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

SECTION 12: Ecological information

12.1. Toxicity

Information related to the product itself:

Fish toxicity :	LC50 1.400 mg/l (48 h, Leuciscus idus (Golden orfe)) Source : literature By analogy with a product of similar composition
Daphnia toxicity :	EC50 > 10 g/l (Daphnia magna (Water flea)) Method : OECD Test Guideline 202 By analogy with a product of similar composition
Algae toxicity :	EC50 > 1.000 mg/l (Desmodesmus subspicatus (Scenedesmus subspicatus)) Method : OECD Test Guideline 201 By analogy with a product of similar composition
Bacteria toxicity :	EC10 > 1.000 mg/l (3 h) Method : OECD Test Guideline 209 By analogy with a product of similar composition

12.2. Persistence and degradability

Information related to the product itself:

Biodegradability :	99 % (2 d) Method : OECD Test Guideline 302B Source : IUCLID Information refers to the main component.
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12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation: not tested.

12.4. Mobility in soil

Information related to the product itself:

Transport and distribution between environmental compartments : not tested.

Behaviour in environmental compartments
no data available

12.5. Results of PBT and vPvB assessment

Information related to the product itself:

no data available

12.6. Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks

The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Dispose of in accordance with local regulations.

Uncleaned packaging

Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Volatile organic compounds (VOC) Directive 1999/13/EC on the limitation of emissions of volatile organic compounds
Evaluation: According to the composition the product contains no VOC component as defined by Directive 1999/13/EC.

Volatile organic compounds (VOC) Directive 2004/42/EC
Evaluation: According to the composition, the product contains no VOC components as defined by Directive 2004/42/EC.

Other regulations

Theshold limit value (German MAK-value) not determined.

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Observe national and local legal requirements

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution From Ships

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CLARIANT 

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NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm³" means "one point three five g/cm³").

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