

Version: 11.00 Revision Date 2017/01/26

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name MONOISOPROPANOLAMINE

 REACH No.
 01-2119475331-43-0002

 Substance name (REACH / CLP)
 1-aminopropan-2-ol

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

Use Industrial use

anti-corrosion agent

raw material for gas scrubbers

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg

Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700

Information (Product safety): Telephone: + 49 (0) 23 65 - 49 47 05

Telefax: +49 (0) 23 65 - 49 92 40

E-mail address msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number + 49 (0) 23 65 - 49 22 32

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion Category 1B Causes severe skin burns and eye damage.

Acute toxicity Category 4 (Dermal) Harmful in contact with skin.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Danger



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Hazard statements

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

• 1-aminopropan-2-ol

2.3 Other hazards

No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

1-aminopropan-2-ol; isopropanolamine

component type: Active ingredient

CAS-No.: 78-96-6

EC-No.: 201-162-7 **Index-No.**: 603-082-00-1

REACH No.: 01-2119475331-43-0002

Substance name (REACH / CLP): 1-aminopropan-2-ol

Classification (Regulation (Skin Corr. 1B H314 (EC) No 1272/2008): Acute Tox. 4 H312

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

General advice

Take off all contaminated clothing immediately. In the case of accident or if you

feel unwell, seek medical advice immediately (show the label where possible). Remove from exposure, lie down. Give oxygen or artificial respiration if needed.

If inhaled Remove from exposure, lie down. If breathing is irregular or stopped, administer

artificial respiration. Monitor breathing, give oxygen if necessary. Call a physician

immediately.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off immediately with



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soap and plenty of water. Consult a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Protect unharmed eye. Call a physician immediately.

If swallowed Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed Symptoms: No information available.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special

treatment needed

Treatment: No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Carbon dioxide (CO2), Alcohol-resistant foam

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Dangerous gases or fumes may occur in case of fire.

Exposure to decomposition products may be a hazard to health.

Closed container may rupture if strongly heated.

Hazardous combustion

products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense

black smoke.

5.3 Advice for firefighters

Special protective equipment

for firefighters

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

protective equipment. Protective suit

Further information Standard procedure for chemical fires. Do not allow run-off from fire fighting to

enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool closed containers exposed to fire with water spray. Remove unnecessary personnel from

the danger area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact

with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up



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Methods for cleaning up Contain spillage, soak up with non-combustible absorbent material, (e.g. sand,

earth, diatomaceous earth, vermiculite) andtransfer to a container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. The material taken up must be disposed of in accordance

with regulations. Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment.

Avoid contact with skin and eyes.

Advice on protection against

Keep away from heat and sources of ignition. fire and explosion

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep container tightly closed. Keep in a cool, well-ventilated place.

Storage class (TRGS 510) 8AL: Combustible liquids, corrosive

Other data Stable at normal ambient temperature and pressure.

container material suitable materials: Stainless steel: 1.4541, 1.4571 (DIN); X6CrNiTi18-10,

X6CrNiMoTi17-12-2 (EN); 321, 316 Ti (AISI), Stainless steel

unsuitable materials: Zinc, Aluminium, copper/copper alloys, Light metals/light

metal alloys

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: 1-aminopropan-2-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable



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	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	8.5 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	2.1 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	0.67 mg/m3	
	Oral, long-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: 1-aminopropan-2-ol			
Environmental Compartment	Value	Note	
Fresh water	0.0327 mg/l		
Marine water	0.00327 mg/l		
intermittent release	0.327 mg/l		
treatment plant	3.3 mg/l		
Fresh water sediment	0.177 mg/kg	based on dry weight	
Marine sediment	0.0177 mg/kg	based on dry weight	
Soil	0.0161 mg/kg	based on dry weight	
food		Not relevant / not applicable	

8.2 Exposure controls



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ENGINEERING MEASURES

If possible, use material transfer/filling, metering and blending plants that are closed.

PERSONAL PROTECTIVE EQUIPMENT

unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist

occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection The choice of an appropriate glove does not only depend on its material but also

on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g.

temperature).

gloves suitable for permanent contact:

Material: Nitrile rubber/nitrile latex Break through time: >= 480 min Layer thickness: 0.35 mm

Material: butyl-rubber

Break through time: >= 480 min Layer thickness: 0.5 mm

gloves suitable for splash protection:

Material: Natural rubber/natural latex Break through time: >= 240 min Layer thickness: 0.5 mm

Eye protection Tightly fitting safety goggles

Skin and body protection Protective suit, Safety shoes

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Use barrier

cream regularly. Take off all contaminated clothing immediately. Do not breathe vapours or spray mist. Ensure adequate ventilation, especially in confined areas.

Protective measures Wear suitable gloves and eye/face protection. Avoid contact with the skin and the

eyes.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid; 20 °C; 1,013 hPa



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Form liquid

Colour colourless

Odour slight, ammoniacal

Odour Threshold No valid method available

pH ca. 12; 20 g/l; 20 °C

Melting point/range ca. 2 °C

Boiling point/boiling rangeca. 159 °C; 1,013 hPaFlash pointca. 74 °C; DIN 51758Evaporation rateNo data availableFlammability (solid, gas)not applicable (liquid)

Vapour pressureca. 0.9 hPa; 20 °CRelative vapour densityNo data availableDensityca.0.96 g/cm3; 20 °CRelative densityNo data available

Water solubility 20 °C; completely miscible

Partition coefficient: n-

octanol/water

log Pow: -0.96

Ignition temperatureca. 410 °C; DIN 51794Auto-ignition temperaturenot auto-flammableViscosity, dynamic31.8 mPas; 20 °C

Explosive properties not expected based on structure and functional groups

Oxidizing properties No data available

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note The product is chemically stable.

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions Incompatible with strong acids and oxidizing agents.

Exothermic reaction with strong acids.

10.4 Conditions to avoid



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Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

Protect from frost.

10.5 Incompatible materials to avoid

Materials to avoid non ferrous metals/non ferrous metal alloys; Nitrous acid and other nitrosating

agents; Vinyl compounds; Light metals/light metal alloys; Zinc; Halogenated compounds; Acid anhydrides; Acid chlorides; Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

Nitrogen oxides (NOx)

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense

black smoke.

Under unfavourable conditions and in combination with nitrosating agents (nitrites,

nitrogen oxides) nitrosamines may form.

Thermal decomposition Stable under normal conditions.

Hazardous decomposition products formed under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity 1-aminopropan-2-ol; isopropanolamine:

LD50 Rat: > 2,000 - 5,000 mg/kg

Symptoms: Convulsions

(literature value)

Based on available data, the classification criteria are not met.

Acute inhalation toxicity 1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Acute dermal toxicity

1-aminopropan-2-ol; isopropanolamine:
LD50 Rabbit: > 1,000 - 2,000 mg/kg;

Target Organs: Skin

Symptoms: Corrosion, Burn

(literature value)

Harmful in contact with skin.

Skin corrosion/irritation

Skin irritation 1-aminopropan-2-ol; isopropanolamine:

Rabbit: Corrosive (literature value)

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Eye irritation 1-aminopropan-2-ol; isopropanolamine:

Rabbit: Corrosive (literature value)

Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation 1-aminopropan-2-ol; isopropanolamine:

study scientifically unjustified



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Germ cell mutagenicity

Genotoxicity in vitro 1-aminopropan-2-ol; isopropanolamine:

In vitro tests did not show mutagenic effects

(literature value)

Genotoxicity in vivo 1-aminopropan-2-ol; isopropanolamine:

In vivo tests did not show mutagenic effects

(literature value)

Remarks 1-aminopropan-2-ol; isopropanolamine:

Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity 1-aminopropan-2-ol; isopropanolamine:

The substance has been shown to be not genotoxic, therefore it is not expected to

have a carcinogenic potential.

Reproductive toxicity

Reproductive toxicity 1-aminopropan-2-ol; isopropanolamine:

Rat; Oral; 38 days (male); 45 days (female)

NOAEL (F1): 1,000 mg/kg (based on body weight and day); OECD Test Guideline

422

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: 1-aminopropan-2-ol hydrochloride

RemarksReproductive

toxicity

1-aminopropan-2-ol; isopropanolamine:

Based on available data, the classification criteria are not met.

Teratogenicity 1-aminopropan-2-ol; isopropanolamine:

Rat; Oral

NOAEL: 1,000 mg/kg (based on body weight and day)

NOAEL (pregnant female): 1,000 mg/kg (based on body weight and day)

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: 1-aminopropan-2-ol hydrochloride

Remarks-Teratogenicity 1-aminopropan-2-ol; isopropanolamine:

Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks 1-aminopropan-2-ol; isopropanolamine:

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure

Remarks 1-aminopropan-2-ol; isopropanolamine:

The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

Repeated dose toxicity 1-aminopropan-2-ol; isopropanolamine:

Rat; Oral; Subacute toxicity

NOAEL: 1,000 mg/kg (based on body weight and day); OECD Test Guideline 422

literature value

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: 1-aminopropan-2-ol hydrochloride

Aspiration hazard

Aspiration toxicity 1-aminopropan-2-ol; isopropanolamine:

Not applicable



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish 1-aminopropan-2-ol; isopropanolamine:

LC50 (96 h) Leuciscus idus (Golden orfe): > 100 mg/l; static test; DIN 38412

(literature value)

In the range of water solubility not toxic under test conditions.

Toxicity to fish - Chronic

toxicity

1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Sufficient information is available to predict no toxicity at the limit of solubility.

Toxicity to daphnia and other

aquatic invertebrates

1-aminopropan-2-ol; isopropanolamine:

EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l; static test

(literature value)

Toxicity to daphnia and other aquatic invertebrates - Chronic

toxicity

1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Sufficient information is available to predict no toxicity at the limit of solubility.

Toxicity to aquatic plants

1-aminopropan-2-ol; isopropanolamine:

EC50 (72 h) Desmodesmus subspicatus (green algae): > 10 - 100 mg/l; static test;

(literature value)

Toxicity to bacteria 1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Justification:

Readily biodegradable.

Toxicity to soil dwelling

organisms

1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Justification:

Readily biodegradable.

Direct exposure to soil is unlikely.

Toxicity to terrestrial flora

1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Justification:

Readily biodegradable.

Direct exposure to soil is unlikely.

Toxicity for other terrestrial

non-mammalian fauna

1-aminopropan-2-ol; isopropanolamine:

The study is not necessary.

Justification:

Studies on birds do not need to be conducted due to large mammalian dataset.

12.2 Persistence and degradability

Biodegradability 1-aminopropan-2-ol; isopropanolamine:

Readily biodegradable.; > 60 %; 28 d; aerobic

(literature value)

12.3 Bioaccumulative potential

Bioaccumulation 1-aminopropan-2-ol; isopropanolamine:

Bioconcentration factor (BCF): 0.11; calculated

Bioaccumulation is unlikely.

(literature value)

12.4 Mobility in soil

Mobility 1-aminopropan-2-ol; isopropanolamine:

Adsorption/Soil; Koc: 1.789; log Koc: 0.253; calculated



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(literature value) Highly mobile in soils

Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment

Results of PBT assessment 1-aminopropan-2-ol; isopropanolamine:

This substance is not considered to be persistent, bioaccumulating and toxic

(PBT).

Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice 1-aminopropan-2-ol; isopropanolamine:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Can be incinerated, when in compliance with local regulations.

Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling

or disposal., Offer rinsed packaging material to local recycling facilities., Packaging that cannot be cleaned must be disposed of in the same way as the material itself.

waste code of the European

Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in

agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR 2735
RID 2735
ADN 2735
IMDG 2735
ICAO/IATA 2735

14.2 Proper shipping name

ADR AMINES, LIQUID, CORROSIVE, N.O.S. (Isopropanolamine)
RID AMINES, LIQUID, CORROSIVE, N.O.S. (Isopropanolamine)
ADN AMINES, LIQUID, CORROSIVE, N.O.S. (Isopropanolamine)
IMDG AMINES, LIQUID, CORROSIVE, N.O.S. (Isopropanolamine)
ICAO/IATA AMINES, LIQUID, CORROSIVE, N.O.S. (Isopropanolamine)

14.3 Transport hazard class

ADR 8 RID 8 ADN 8



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IMDG 8
ICAO/IATA 8

14.4 Packing group

ADR II
RID II
ADN II
IMDG II
ICAO/IATA II

14.5 Environmental hazards

ADR Environmentally hazardous no RID Environmentally hazardous no ADN Environmentally hazardous no IMDG Marine pollutant no ICAO/IATA Environmentally hazardous no

14.6 Special precautions for user

ADR Hazard Identification Number 80

Tunnel restriction code (E)

IMDG Labels 8

EmS Number 1 F-A EmS Number 2 S-B

ICAO/IATA Labels 8

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

Ship type 3
Pollution category Y

Remarks MARPOL NAME: Isopropanolamine

SECTION 15: REGULATORY INFORMATION

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

Occupational restrictions Employment restrictions for children and young workers in accordance with

Directive 94/33/EC and the respective national provisions are to be observed.

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on

the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable



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NOT	IFIC	ATIC)NS	TAT	US
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CH INV	listed (product or constituents are listed)
TSCA	listed (product or constituents are listed)
DSL	listed (product or constituents are listed)
AICS	listed (product or constituents are listed)
ENCS (JP)	listed (product or constituents are listed)
ISHL (JP)	listed (product or constituents are listed)
KECI (KR)	listed (product or constituents are listed)
PICCS (PH)	listed (product or constituents are listed)
INV (CN)	listed (product or constituents are listed)
	TSCA DSL AICS ENCS (JP) ISHL (JP) KECI (KR) PICCS (PH)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

1-aminopropan-2-ol

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

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

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

Safety datasheet sections which have been updated:

- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 14. Transport information

Further information: The information provided in this Safety Data Sheet is correct to the best of our

knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.



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> This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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

Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

AICS Australian Inventory of Chemical Substances ANSI American National Standards Institute ASTM American Society of Testing and Materials (US)

BCF Bioconcentration factor

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DIN Deutsches Institut für Normung DNEL Derived No-Effect Level DSL Domestic Substances List FC. Effect concentration ... %

Existing Notified Chemical Substances (Japan) ENCS **EWC** European Waste Catalogue IATA International Air Transport Association IBC Intermediate Bulk Container ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods IMO International Maritime Organization ISHL Industrial Safety and Health Law (Japan) ISO International Organization for Standardization

International Union of Pure and Applied Chemistry Korea Existing Chemicals Inventory KECI

Lethal Concentration, ...% LC...

LD... Lethal Dose, ...%

MARPOL International Convention for the Prevention of Pollution From Ships

NDSL Non-Domestic Substances List NOAEL no observable adverse effect level NOEL/NOEC No Observed-effect level/concentration NZIoC New Zealand Inventory of Chemicals

OECD Organisation for Economic Co-operation and Development persistent, bioaccumulative, toxic PBT PICCS

Philippine Inventory of Chemicals and Chemical Substances **PNEC** Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport international ferroviaire de marchandises dangereuses

TG Test Guideline

TRGS Technische Regeln für Gefahrstoffe **TSCA** Toxic Substances Control Act very persistent, very bioaccumulative vPvB Wassergefährdungsklasse WGK

Annex

IUAPC

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

1-aminopropan-2-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000055_EN_01.pdf