

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Trade name : Ammonia (ca. 4% in Isopropyl Alcohol, ca. 2.0mol/L)

Product code : A2237 EC-No. : 231-635-3

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

Use of the Substance/Mixture : Use as laboratory reagent

1.3 Details of the supplier of the safety data sheet

Company : TCI EUROPE N.V.

Address : Boereveldseweg 6 - Haven 1063, B-2070 Zwijndrecht, Belgium

Telephone : +32 (0)3 735 07 00
Telefax : +32 (0)3 735 07 01
E-mail address of person respon- : sales-eu@tcichemicals.com

sible for the SDS

1.4 Emergency telephone number

Emergency telephone number : +44 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.
Serious eye damage, Category 1 H318: Causes serious eye damage.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or breath-

ing difficulties if inhaled.

Germ cell mutagenicity, Category 2 H341: Suspected of causing genetic defects. Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the unborn

child.

Specific target organ toxicity - single exposure, Category 1, Respiratory system, Kidney,

Central nervous system

Specific target organ toxicity - single expo-

sure, Category 3, Respiratory system

Specific target organ toxicity - repeated exposure, Category 2, Liver, blood vessel, Lungs,

spleen

Long-term (chronic) aquatic hazard, Category

H335: May cause respiratory irritation.

H370: Causes damage to organs.

H373: May cause damage to organs through prolonged

or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms









Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs (Respiratory system, Kidney,

Central nervous system).

H373 May cause damage to organs (Liver, blood vessel, Lungs,

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spleen) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

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

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

Hazardous components which must be listed on the label:

Isopropyl Alcohol Ammonia

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS RN EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Isopropyl Alcohol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Repr. 2; H361 STOT SE 1; H370 (Kidney, Central nervous system) STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Liver, blood vessel,	>= 90 - <= 100

spleen) 7664-41-7 Flam. Gas 2; H221 >= 3 - < 5 Ammonia 231-635-3 Press. Gas Liquefied 007-001-00-5 gas; H280 Acute Tox. 3; H331 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT SE 1; H370 (Respiratory system) STOT RE 2; H373 (Lungs) Aquatic Acute 1; H400 Aquatic Chronic 1;

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/ physician.

In case of skin contact : Take off all contaminated clothing immediately.

If on skin, rinse well with water.

Call a POISON CENTER or doctor/ physician.

In case of eye contact : Rinse with plenty of water.

If easy to do, remove contact lens, if worn.

Immediately call a POISON CENTER or doctor/physician.

H410

If swallowed : Immediately call a POISON CENTER or doctor/ physician.

Rinse mouth.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Alcohol-resistant foam, Water spray, Carbon dioxide

(CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

No information available.

5.3 Advice for firefighters

Special protective equipment for :

firefighters

Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circum-

stances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire

area if it is safe to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment. Keep people away from and

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upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by

roping off, etc.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect as much of the spill as possible with a suitable absorbent

material.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Prevent generation of vapour or mist.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

Local/Total ventilation : Ensure adequate ventilation.

Handle product only in closed system or provide appropriate exhaust

ventilation at machinery. Use a local exhaust ventilation.

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Wear personal protective equipment.

Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling. Open drum carefully as content may be under pressure.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep container tightly closed. Store in a refrigerator. Keep in a wellventilated place. Use explosion-proof equipment. Keep under inert

gas. Store locked up.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS RN	Value type (Form of exposure)	Control parameters	Basis	
Isopropyl Alcohol	67-63-0	AGW	200 ppm 500 mg/m3	DE TRGS 900	
	Peak-limit: excursion factor (category): 2;(II)				
	Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
Ammonia	7664-41-7	STEL	50 ppm 36 mg/m3	2000/39/EC	
	Further information: Indicative				
		TWA	20 ppm 14 mg/m3	2000/39/EC	

Further information: Indicative

AGW

20 ppm
14 mg/m3

Peak-limit: excursion factor (category): 2;(I)

Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

8.2 Exposure controls

Engineering measures

Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Eye/face protection : Safety glasses, Safety goggles, Face-shield

Hand protection : Impervious gloves

Skin and body protection : Impervious protective clothing

Respiratory protection : Gas mask

Self-contained breathing apparatus

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid Colour : colourless

Odour : No data available Odour Threshold : No data available

Melting point/freezing point

Boiling point/boiling range
Flammability
Upper explosion limit/Upper

No data available
No data available
No data available
No data available

flammability limit

Lower explosion limit/Lower

flammability limit

Flash point : No data available
Auto-ignition point : No data available
Decomposition temperature : No data available
pH : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : No data available Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

No data available

Vapour pressure : No data available

Relative density : 0,78

Relative vapour density : No data available Particle characteristics : No data available

9.2 Other information

Molecular weight : 17,03 g/mol

^{*}Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None under normal processing.

10.4 Conditions to avoid

Conditions to avoid : Heat, Electrical spark, Open flame, Electrostatic discharge, Exposure

to air.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents,

Acids,

10.6 Hazardous decomposition products

Nitrogen oxides (NOx),

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Assessment: The component/mixture is minimally toxic after single

ingestion.

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Assessment: The component/mixture is minimally toxic after single

contact with skin.

Components:

Isopropyl Alcohol:

Acute oral toxicity : TDLo (Humans): 223 mg/kg

Assessment: The component/mixture is minimally toxic after single

ingestion.

TDLo (Humans, male): 14 432 mg/kg

LD50 (Rat): 5 045 mg/kg

Acute inhalation toxicity : TCLo (Humans): 35 ppm

Exposure time: 4 h Test atmosphere: gas

Assessment: The substance or mixture has no acute inhalation tox-

icity

LC50 (Rat): 16000 ppm Exposure time: 8 h Test atmosphere: gas

Acute dermal toxicity : LD50 (Rabbit): 12 800 mg/kg

Assessment: The component/mixture is minimally toxic after single

contact with skin.

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Ammonia:

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhala-

tion.

Skin corrosion/irritation

Product:

Result : Skin irritation

Components:

Ammonia:

Result : Causes burns.

Serious eye damage/eye irritation

Product:

Result : Irreversible effects on the eye

Components:

Isopropyl Alcohol:

Result : Eye irritation

Ammonia:

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Components:

Ammonia:

Assessment : May cause sensitisation by inhalation.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As-

sessment

Suspected of inducing heritable mutations in the germ cells of hu-

mans.

Carcinogenicity : No information available.

Reproductive toxicity

Product:

Reproductive toxicity - Assess-

ment

Suspected human reproductive toxicant

Components:

Isopropyl Alcohol:

Reproductive toxicity - Assess-

ment

Suspected human reproductive toxicant

STOT - single exposure

Product:

Assessment : May cause respiratory irritation.

Target Organs : Respiratory system, Kidney, Central nervous system

Assessment : Causes damage to organs.

Components:

Isopropyl Alcohol:

Assessment : May cause respiratory irritation.

Target Organs : Kidney, Central nervous system Assessment : Causes damage to organs.

Ammonia:

Target Organs : Respiratory system
Assessment : Causes damage to organs.

STOT - repeated exposure

Product:

Target Organs : Liver, blood vessel, Lungs, spleen

Assessment : May cause damage to organs through prolonged or repeated expo-

sure.

Components:

Isopropyl Alcohol:

Target Organs : Liver, blood vessel, spleen

Assessment : May cause damage to organs through prolonged or repeated expo-

sure.

Ammonia:

Target Organs : Lungs

Assessment : May cause damage to organs through prolonged or repeated expo-

sure.

Repeated dose toxicity : No information available.

Aspiration toxicity

Product:

May be harmful if swallowed and enters airways.

Components:

Isopropyl Alcohol:

May be harmful if swallowed and enters airways.

RTECS No. : NT8050000 (Isopropyl Alcohol)

BO0875000 (Ammonia)

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

Isopropyl Alcohol:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1 000 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): > 1 000 mg/l

Exposure time: 72 h

Ammonia:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,37 mg/l

Exposure time: 48 h

LC50 (Pimephales promelas (fathead minnow)): 5,9 mg/l

Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

Isopropyl Alcohol:

Partition coefficient: n-

: 0,05

octanol/water

12.4 Mobility in soil

Components:

Isopropyl Alcohol:

Distribution among environmen- :

Koc: 1,5

tal compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent

and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Disposal in accordance with local and national regulations.

Take precautions against ignition or explode.

Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations.

Before disposal of used container, remove contents completely.

SECTION 14: Transport information

14.1 UN number or ID number

 ADR
 : UN 1219

 IMDG
 : UN 1219

 IATA
 : UN 1219

14.2 UN proper shipping name

ADR : ISOPROPYL ALCOHOL SOLUTION

IMDG : ISOPROPYL ALCOHOL SOLUTION

IATA : Isopropyl alcohol solution

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 3

 IMDG
 : 3

 IATA
 : 3

14.4 Packing group

ADR

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Tunnel restriction code : (D/E)

IMDG

Packing group : II

EmS Code : F-E, S-D

IATA (Cargo)

Packing instruction (cargo air- : 364

craft)

Packing instruction (LQ) : Y341
Packing group : II

IATA (Passenger)

Packing instruction (passenger

aircraft)

353

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Packing instruction (LQ) Y341 Packing group Ш

14.5 Environmental hazards

ADR

Environmentally hazardous nο

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous

chemicals

Not applicable

REACH - Candidate List of Substances of Very High Concern

for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the

ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants Not applicable

REACH - List of substances subject to authorisation (Annex

XIV)

Not applicable

Water hazard class (Germany) WGK 1 slightly hazardous to water

Classification according to AwSV, Annex 1 (5.2)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

CH BAGREG On the inventory, or in compliance with the inventory

TSCA All substances listed as active on the TSCA inventory

AICS On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

ENCS On the inventory, or in compliance with the inventory

ISHL On the inventory, or in compliance with the inventory

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KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H221 : Flammable gas.

H225 : Highly flammable liquid and vapour.

H280 : Contains gas under pressure; may explode if heated.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H331 : Toxic if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.

H361 : Suspected of damaging fertility or the unborn child.

H370 : Causes damage to organs.

H373 : May cause damage to organs through prolonged or repeated expo-

sure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Press. Gas : Gases under pressure
Repr. : Reproductive toxicity
Resp. Sens. : Respiratory sensitisation

Skin Corr. : Skin corrosion

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of

indicative occupational exposure limit values

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally

Classification procedures

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Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture.

Classification of the mixture:		Classification procedure:	
Flam. Liq. 2	H225	Calculation method	
Skin Irrit. 2	H315	Based on product data or assessment	
Eye Dam. 1	H318	Based on product data or assessment	
Resp. Sens. 1	H334	Calculation method	
Muta. 2	H341	Based on product data or assessment	
Repr. 2	H361	Based on product data or assessment	
STOT SE 1	H370	Based on product data or assessment	
STOT SE 3	H335	Based on product data or assessment	
STOT RE 2	H373	Based on product data or assessment	
Aquatic Chronic 2	H411	Based on product data or assessment	

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

DE / 6N