



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name	DIGLYCOLAMINE
REACH Registration Number	01-2119520701-52
Substance name	2-(2-aminoethoxy)ethanol
CAS-No.	929-06-6
EC-No.	213-195-4

1.2. Relevant identified uses of the substance or mixture and uses advised against**- IDENTIFIED USES -**

ES1: Manufacture of the substance Industrial uses
ES2: Use as an intermediate. Industrial uses
ES3: Formulation of preparations Industrial uses
ES4: Formulation of preparations Professional uses
ES5: Gas treatment. Industrial uses
ES6: Use in lubricants and metal working fluids., ($\leq 10\%$). Industrial uses
ES7: Use in lubricants and metal working fluids., ($\leq 10\%$). Professional uses
ES8: Use in wafer cleaning solvents ($\leq 10\%$). Industrial uses
ES9: Use as processing aid (paper, textiles, leather)., ($\leq 10\%$). Industrial uses
ES10: Use as processing aid (paper, textiles, leather)., ($\leq 10\%$). Professional uses
ES11: Use in laboratories Industrial uses
ES12: Use in laboratories Professional uses
ES13: Use of lubricants and greases, (open systems) Industrial uses
ES14: Use of lubricants and greases, (open systems) Professional uses
ES15: Use in wafer cleaning solvents ($\leq 60\%$). Industrial uses

Uses advised against

Do not use for thermal papers.

1.3. Details of the supplier of the safety data sheet**Company**

SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone	+49 (0) 202/30999510
Telefax	+49 (0) 202/87088403
E-mail address	info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240.



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)****Skin corrosion, Category 1B**

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

2.2. Label elements**Hazard pictograms (CLP)****Signal word (CLP)**

Danger

Hazard statements (CLP)

H314 Causes severe skin burns and eye damage.

Precautionary statements (CLP)

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

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

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

Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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.

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

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

SAFETY DATA SHEET



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

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SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name

2-(2-aminoethoxy)ethanol

EC-No.

213-195-4

Hazardous components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
2-(2-aminoethoxy)ethanol	929-06-6 213-195-4	>= 90 - <= 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

First Aid responders should pay attention to self-protection and use the recommended protective clothing.

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes.

No action shall be taken involving any personal risk or without suitable training.

It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

If inhaled

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

If on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

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

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Take victim immediately to hospital.



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media

Exercise caution when using a high volume water jet as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products

No hazardous combustion products are known

5.3. Advice for firefighters

Special protective equipment

Wear self-contained breathing apparatus for firefighting if for firefighters necessary.

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

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6.3. Methods and material for containment and cleaning up

Neutralise with acid.

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

Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information.,

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe vapours/dust.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

To avoid spills during handling keep bottle on a metal tray.

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Hygiene measures

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

Keep in properly labelled containers.

Advice on common storage

Do not store near acids.

Storage class (TRGS 510)

8A

Further information on storage stability

Stable under normal conditions.

7.3. Specific end use(s)

See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).

Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2-aminoethoxy)ethanol	929-06-6	AGW (Vapour and aerosols)	0,2 ppm 0,87 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	1;(I)			
Further information	Skin absorption, Substance sensitizing through the skin			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End use	Exposure routes	Potential health effects	Value
2-(2-aminoethoxy)ethanol	Workers	Inhalation	Long-term systemic effects	1,12 mg/m ³
	Workers	Inhalation	Long-term local effects	0,67 mg/m ³
	Workers	Dermal	Long-term systemic effects	7,3 mg/kg bw/day
	Workers	Dermal	Long-term local effects	0,0003 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	0,33 mg/m ³
	Consumers	Inhalation	Long-term local effects	0,2 mg/m ³
	Consumers	Dermal	Long-term systemic effects	4,4 mg/kg bw/day
	Consumers	Dermal	Long-term local effects	0,019 mg/cm ²
	Consumers	Oral	Long-term systemic effects	4,4 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-(2-aminoethoxy)ethanol	Fresh water	0,202 mg/l
	Freshwater - intermittent	2,02 mg/l
	Fresh water sediment	0,99 mg/kg dry weight (d.w.)
	Marine water	0,02 mg/l
	Marine sediment	0,099 mg/kg dry weight (d.w.)
	Sewage treatment plant	28 mg/l
	Soil	0,07 mg/kg dry weight (d.w.)



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

8.2. Exposure controls

Personal protective equipment

Eyeface protection

Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	amine-like
Odour Threshold	No data is available on the product itself.
pH	11,8
Freezing point	-12,5 °C
Boiling point	222,5 - 223,8 °C, (1 013 hPa)
Flash point	127 °C, Method: Pensky-Martens closed cup
Flammability (solid, gas)	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	11,7 %(V)
Lower explosion limit / Lower flammability limit	2,6 %(V)
Vapour pressure	0,002 hPa (25 °C)
Relative vapour density	3,6
Relative density	1,06 (20 °C)
Density	No data is available on the product itself.
Solubility(ies)	
Water solubility	completely miscible
Solubility in other solvents	Solvent: Methanol
	Description: soluble
Partition coefficient: n-octanol/water	log Pow: -1,89 (20 °C)
Auto-ignition temperature	370 °C
Decomposition temperature	No data is available on the product itself.
Viscosity	
Viscosity, dynamic	48,688 mPa.s (25 °C)

9.2 Other information

Explosive properties	No data is available on the product itself.
Oxidizing properties	None.
Burning rate	No data is available on the product itself.
Evaporation rate	No data is available on the product itself.
Molecular weight	105,16 g/mol



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazards to be specially mentioned.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids
Metals

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Components:

2-(2-aminoethoxy)ethanol:

Acute oral toxicity

LD50 (Rat, male and female): 2 558 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity

LC50 (Rat, male and female): > 8.7 mg/m³

Exposure time: 8 h

Test atmosphere: vapour

Method: OECD Test Guideline 403

Acute dermal toxicity

LD50 (Rabbit, male and female): > 3 000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Components:

2-(2-aminoethoxy)ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

Eye damage/eye irritation

Components:

2-(2-aminoethoxy)ethanol:

Species: Rabbit

Result: Risk of serious damage to eyes.



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

Respiratory or skin sensitization

Product:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Components:

2-(2-aminoethoxy)ethanol:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

2-(2-aminoethoxy)ethanol:

Genotoxicity in vitro

Concentration: 100 - 10000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 62.5 - 250 mg/kg

Method: Directive 67/548/EEC, Annex, B.21

Result: negative

Method: OECD Test Guideline 482

Result: negative

Genotoxicity in vivo

Application Route: Intraperitoneal injection

Dose: 62.5 - 250 mg/kg

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

Product:

Effects on fertility

Species: Rat, male and female

Application Route: Inhalation

Method: OECD Test Guideline 422

Species: Rat, male and female

Application Route: Dermal

Method: OECD Test Guideline 411

Effects on foetal development

Species: Rat, male and female

Application Route: Inhalation

General Toxicity Maternal: NOAEL: 40 mg/m3

Method: OECD Test Guideline 422

Result: No teratogenic effects



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

Components:

2-(2-aminoethoxy)ethanol:

Effects on fertility

Species: Rat, male and female
Application Route: Inhalation
Method: OECD Test Guideline 422

Species: Rat, male and female
Application Route: Dermal
Method: OECD Test Guideline 411

Effects on foetal development

Species: Rat, male and female
Application Route: Inhalation
General Toxicity Maternal: NOAEL: 40 mg/m³
Method: OECD Test Guideline 422
Result: No teratogenic effects

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

2-(2-aminoethoxy)ethanol:
Species: Rat, male and female
NOAEL: \geq 175 mg/kg/d
Application Route: Skin contact
Exposure time: 13 Weeks
Number of exposures: 6 h
Method: Subchronic toxicity

Aspiration toxicity

No data available

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

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-(2-aminoethoxy)ethanol:

Toxicity to fish

LC50 (Leuciscus idus (Golden orfe)): > 681 mg/l

Exposure time: 96 h

Test Type: static test

Test substance: Fresh water

Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 189 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants

ErC50 (Desmodesmus subspicatus (green algae)): 202 mg/l

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: DIN 38412

Toxicity to microorganisms

EC50 (Pseudomonas putida): 110 mg/l

Exposure time: 17 h

Test Type: static test

Test substance: Fresh water

Method: DIN 38 412 Part 8

2.2 Persistence and degradability

Components:

2-(2-aminoethoxy)ethanol:

Biodegradability

Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 84 %

Exposure time: 28 d

Method: OECD Test Guideline 302B

Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 90 - 100 %

Exposure time: 17 d

Method: OECD Test Guideline 301A



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

12.3 Bioaccumulative potential**Components:**

2-(2-aminoethoxy)ethanol:

Bioaccumulation

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water

log Pow: -1,89 (20 °C)

12.4 Mobility in soil**Components:**

2-(2-aminoethoxy)ethanol:

Distribution among environmental compartments

Koc: 1 - 1,061

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 No known significant effects or critical hazards.

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

SAFETY DATA SHEET



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

SECTION 14: Transport information

14.1. UN-Number

ADR/RID, ADN, IMDG, IATA 3055

14.2. UN proper shipping name

ADR/RID 2-(2-AMINOETHOXY) ETHANOL
ADN 2-(2-AMINOETHOXY) ETHANOL
IMDG 2-(2-AMINOETHOXY) ETHANOL
IATA 2-(2-AMINOETHOXY) ETHANOL

14.3. Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA Class 8



14.4. Packing group

ADR/RID, ADN, IMDG, IATA III

14.5. Environmental hazards:

ADR/RID, ADN, IMDG, IATA No
Marine pollutant No

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.

ADN

Packing group III
Classification Code C7
Hazard Identification Number 80
Labels 8

ADR

Packing group III
Classification Code C7
Hazard Identification Number 80
Labels 8
Tunnel restriction code (E)

RID

Packing group III
Classification Code C7
Hazard Identification Number 80
Labels 8

SAFETY DATA SHEET



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

IMDG

Packing group	III
Labels	8
EmS Code	F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft)	856
Packing instruction (LQ)	Y841
Packing group	III
Labels	Corrosive

IATA (Passenger)

Packing instruction (passenger aircraft)	852
Packing instruction (LQ)	Y841
Packing group	III
Labels	Corrosive

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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 - List of substances subject to authorisation (Annex XIV)

Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germany)

WGK 1 slightly hazardous to water; Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany)

5.2.1 Total dust:	Not applicable
5.2.2 Inorganic substances in powdered form:	Not applicable
5.2.4 Inorganic substances in gaseous form:	Not applicable
5.2.5 Organic Substances:	Not applicable
5.2.7.1.1 Carcinogenic substance:	Not applicable
5.2.7.1.1 Quartz fine dust PM4:	Not applicable
5.2.7.1.1 Formaldehyde:	Not applicable
5.2.7.1.2 Germ cell mutagens:	Not applicable
5.2.7.1.3 Substances toxic to reproduction:	Not applicable
5.2.7.2 Poorly degradable, easily enrichable and highly toxic organic substances	Not applicable



Trade name: DIGLYCOLAMINE

Print Date: 24. June 2019

Version: 4.1, revision date: 14.03.2023

Replaced version: 3.1 / 02.01.2021

Region: EN

Other regulations:

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:

DSL	All components of this product are on the Canadian DSL
AIIC	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
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
TCSI	On the inventory, or in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment:

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

SECTION 16: Other information

DE TRGS 900 Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW Time Weighted Average

Full text of abbreviated H statements

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

Full text of classifications

Skin corrosion, Category 1B

Serious eye damage, Category 1

Indication of changes

Alignment with Regulation: Regulation (EC) No 1907/2006 (REACH) as amended by 2020/878/EU.
Complete revision.

Key literature references and sources for data:

Chemical Safety Report

Training advice for workers

See information contained in the Safety Data Sheet.

Further information

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION.
WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.