

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

1.1. Product identifier

Name of the substance	ZELEC NK
Identification number	291-877-0 (EC number)
Registration number	-
Synonyms	Phosphoric acid, C8-16-alkyl esters, compds. with diethanolamine
Product code	1031EU
Issue date	16-April-2018
Version number	02
Revision date	23-May-2018
Supersedes date	16-April-2018

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

Identified uses	Industrial use Additives for fibers and plastics
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Address	STEPAN EUROPE Chemin Jongkind CS 20127 38341 Voreppe Cedex France
Telephone	(33) 4 76 50 51 00
Fax	(33) 4 76 50 51 35
E-mail	sds.contact@stepaneurope.com
Contact person	See email address

1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria VIZ Poison Control Centre	+43 1 406 43 43 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Center	70 245 245 (24h/24)
Bulgaria Emergency Medicine N.I.Pirogov"	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poison Control Centre	(+385 1) 23-48-342 (24h/24)
Cyprus Poison Control Emergency	1401 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Czech Republic Toxikologické informacní středisko	+420 224 919 293 or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark Giftlinjen	82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia Poison information	16662 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland Myrkytystietokeskus	09 471 977 (24h/day)
France National Poison Information Center	Hôpital F.WIDAL : 01 40 05 48 48 , ORFILA (INRS) : 01 45 42 59 59 (24h/24 7j/7)
Germany Giftnotruf der Charité (Berlin)	030/19240 (Notruf)

1.4. Emergency telephone number

Greece National Poison Information Center	(0030) 2107793777 24 hours/day
Hungary Információs szolgálat akút mérgezés esetén	(+36-80) 201-199 (0-24 h, díjmentesen hívható)
Ireland Poisons Information Centre, Beaumont Hospital	01 8092566 or 01 8379964
Italy Ospedale Niguarda Ca'Granda	02 661 010 29
Latvia Valsts ugunsdzēsības un glābšanas dienests	+371 67042473 (24h/24)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 arba +370 687 53378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Luxembourg Centre Antipoisons / Antigif centrum	070 245 245 24h/24
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center	030-2748888 Only for the purpose of informing medical personnel in cases of acute intoxications / Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Poland Poisons information Centre	(00 48)(58) 47 82 22, (00 48)(58) 31 65 16
Portugal Poisons information Centre	808 250 143
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Russia Toxicology Information and Advisory Center	(0 07)(95) 9 28 16 47
Slovakia National Toxicological Information Center	(00 90)(312) 4 33 70 01
Slovenia Urad Republike Slovenije za kemikalije	010-456 6700 (mon-fri 9.00-17.00)
Spain Servicio de Información Toxicológica	+ 34 91 562 04 20 24h/365 días
Sweden Giftinformationscentralen / Swedish Poisons Information Centre	010-456 6700 (mon-fri 9.00-17.00)
Switzerland Swiss Tox Info / Tox Info Suisse	145 (24h/24)
Turkey National Poison Control Center and Toxicology Department	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
United Kingdom Guy's Hospital Poisons Unit	(00 44)(1 71) 6 35 91 91

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards
Skin corrosion/irritation

Category 2

H315 - Causes skin irritation.

Hazard summary Causes skin irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



Signal word Warning

Hazard statements

H315 Causes skin irritation.

Precautionary statements

Prevention

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

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Storage Not available.

Disposal Not available.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Phosphoric acid, C8-16-alkyl esters, compounds with diethanolamine	-	90506-18-6 291-877-0	-	-	
Classification:	Skin Irrit. 2; H315				

Impurities

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Octan-1-ol	-	111-87-5 203-917-6	-	-	
Decan-1-ol	-	112-30-1 203-956-9	-	-	
Alcohols C12-16	-	68855-56-1 272-490-6	-	-	
Diethanolamine	-	111-42-2 203-868-0	01-2119488930-28	603-071-00-1	

Composition comments

Impurities Classification:

Octane-1-ol (CAS 111-87-5)
Eye Irrit. 2 - H319; Aquatic Chronic 3 - H412

Decane-1-ol (CAS 112-30-1)
Eye Irrit. 2 - H319

Diethanolamine (CAS 111-42-2)
Eye Dam. 1 - H318; Acute Tox. 4 - H302, Skin Irrit. 2 - H315; STOT RE 2 - H373; Aquatic Chronic 3 - H412

Alcohols C12-16 (CAS 68855-56-1)
Eye Irrit. 2 - H319; Aquatic Acute 1 - H400

SECTION 4: First aid measures

General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Skin irritation. May cause redness and pain.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Dry chemical powder. Carbon dioxide (CO ₂). Large Fires: Water fog.
Unsuitable extinguishing media	Do not use water jet.
5.2. Special hazards arising from the substance or mixture	Fire may produce irritating, corrosive and/or toxic gases. In the event of fire the following can be released: Carbon oxides (CO _x)
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Observe good industrial hygiene practices. Avoid contact with skin and eyes. Wash hands after handling and before eating.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	MAK	2 mg/m ³ 0.46 ppm

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Impurities	Type	Value
	STEL	4 mg/m3 0.92 ppm

Belgium. Exposure Limit Values.

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m3 0.46 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	10 mg/m3
Decan-1-ol (CAS 112-30-1)	TWA	10 mg/m3
Octan-1-ol (CAS 111-87-5)	TWA	10 mg/m3

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	MAC	15 mg/m3 3 ppm

Czech Republic. OELs. Government Decree 361

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	Ceiling	10 mg/m3
	TWA	5 mg/m3

Denmark. Exposure Limit Values

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TLV	2 mg/m3 0.46 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	STEL	30 mg/m3
	TWA	6 ppm 15 mg/m3 3 ppm

Finland. Workplace Exposure Limits

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m3 0.46 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	VME	15 mg/m3 3 ppm

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Impurities	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Vapor and aerosol, inhalable fraction.
Decan-1-ol (CAS 112-30-1)	TWA	66 mg/m3 10 ppm	Vapour and aerosol. Vapour and aerosol.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Impurities	Type	Value	Form
Octan-1-ol (CAS 111-87-5)	AGW	106 mg/m3	Vapour and aerosol.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Impurities	Type	Value	Form
		20 ppm	Vapour and aerosol.

Greece. OELs (Decree No. 90/1999, as amended)

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	15 mg/m3
		3 ppm

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m3
		0.46 ppm

Ireland. Occupational Exposure Limits

Impurities	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
		0.2 ppm	Inhalable fraction and vapor.

Italy. Occupational Exposure Limits

Impurities	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Impurities	Type	Value
Decan-1-ol (CAS 112-30-1)	TWA	10 mg/m3
Octan-1-ol (CAS 111-87-5)	TWA	10 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	STEL	30 mg/m3
		6 ppm
	TWA	15 mg/m3
		3 ppm
Decan-1-ol (CAS 112-30-1)	TWA	10 mg/m3
Octan-1-ol (CAS 111-87-5)	TWA	10 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TLV	15 mg/m3
		3 ppm

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	9 mg/m3

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Impurities	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Impurities	Type	Value
Decan-1-ol (CAS 112-30-1)	STEL	200 mg/m3
		30 ppm
	TWA	100 mg/m3
		15 ppm
Octan-1-ol (CAS 111-87-5)	STEL	250 mg/m3
		47 ppm
	TWA	150 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace
Impurities

Type

Value

28 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working
(Official Gazette of the Republic of Slovenia)

Impurities

Type

Value

Form

Diethanolamine (CAS 111-42-2)

TWA

15 mg/m3

Inhalable fraction.

Spain. Occupational Exposure Limits

Impurities

Type

Value

Diethanolamine (CAS 111-42-2)

TWA

2 mg/m3

0.46 ppm

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Impurities

Type

Value

Diethanolamine (CAS 111-42-2)

STEL

30 mg/m3

TWA

6 ppm

15 mg/m3

3 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Impurities

Type

Value

Form

Diethanolamine (CAS 111-42-2)

STEL

1 mg/m3

Inhalable dust.

TWA

1 mg/m3

Inhalable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Impurities

Value

Assessment factor

Notes

Diethanolamine (CAS 111-42-2)

Long-term, Local, Inhalation

0.125 mg/m3

Long-term, Systemic, Dermal

0.07 mg/kg bw/day

120

Repeated dose toxicity

Long-term, Systemic, Oral

0.06 mg/kg bw/day

240

Repeated dose toxicity

Short-term, Systemic, Inhalation

0.125 mg/m3

2

Repeated dose toxicity

Workers

Impurities

Value

Assessment factor

Notes

Diethanolamine (CAS 111-42-2)

Long-term, Local, Inhalation

0.5 mg/m3

Long-term, Systemic, Dermal

0.13 mg/kg bw/day

60

Repeated dose toxicity

Short-term, Systemic, Inhalation

0.75 mg/m3

1

Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Impurities

Value

Assessment factor

Notes

Diethanolamine (CAS 111-42-2)

Freshwater

0.021 mg/l

50

Intermittent releases

0.095 mg/l

Marine water

0.002 mg/l

500

Secondary poisoning

1.04 mg/kg

90

Oral

Sediment (freshwater)

0.092 mg/kg

Sediment (marine water)

0.009 mg/kg

Soil

1.63 mg/kg

STP

100 mg/l

10

Exposure guidelines

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working
(Official Gazette of the Republic of Slovenia)

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. PVC gloves are recommended.
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Paste.
Colour	Yellow.
Odour	Sweet.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	50 °C (122 °F)
Initial boiling point and boiling range	> 150 °C (> 302 °F)
Flash point	> 100.0 °C (> 212.0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Dispersible
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Density	1.05 g/cm ³ @ 25°C
pH in aqueous solution	7 - 7.6 @100 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	To avoid thermal decomposition, do not overheat. Contact with incompatible materials.
10.5. Incompatible materials	Incompatible with oxidising agents. Alkalies. Acids.
10.6. Hazardous decomposition products	Carbon oxides (CO _x)

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Skin irritation. May cause redness and pain.
11.1. Information on toxicological effects	
Acute toxicity	
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)	
Not listed.	
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient n-octanol/water (log K_{ow})	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

General IMDG Regulated Marine Pollutant.

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

Segregation group : None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

General information IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006)
 CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008
 CAS: Chemical Abstract Service
 EINECS: European Inventory of Existing Commercial Chemical Substances
 PBT: Persistent, bioaccumulative, toxic
 vPvB: very Persistent, very Bioaccumulative
 BLV: Biological Limit Value
 LD50: Lethal Dose 50%
 EC50: Effective Concentration 50%
 LC50: Lethal Concentration 50%
 IC50: Inhibition Concentration 50%
 ES: Exposure scenario
 CSR: Chemical Safety Report
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 ADR: European agreement concerning the international carriage of dangerous goods by road
 RID: Regulations concerning the international carriage of dangerous goods by rail
 IMDG Code: International Maritime Dangerous Goods Code
 IATA: International Air Transport Association

References

Not available.

Information on evaluation method leading to the classification of mixture

Not applicable.

Full text of any H-statements not written out in full under Sections 2 to 15

H315 Causes skin irritation.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

Stepan Europe cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.