

01257 - PROMET 17-MS

Revision nr. 11

Dated 28/11/2023

Printed on 22/04/2024 Page n. 1/16 Replaced revision:10 (Printed on: 28/11/2023)

	Safoty Data SI	hoot	
According to Appex II t	Dalely Dala Si to REACH - Regulation 2020/87	1001 78 and to Annex II to LIK RE	АСН
SECTION 1. Identification of the subs	stance/mixture and of	the company/unde	rtaking
4.4. Droduct identifier			
Code:	01257		
Product name	PROMET 17-MS		
	JZA0-J0E3-D00C-ZWOW		
1.2. Relevant identified uses of the substance or m Intended use Degreaser for metal w	ixture and uses advised again /orking	nst	
Identified Uses	Industrial	Professional	Consumer
Soluble protective in water for industrial applications	×	-	-
Uses Advised Against			
All those not expressly identified on the label			
1.2 Details of the supplier of the sefety data shoet			
Name	E-CHEM S.R.L.		
Full address	Via della Ricerca 1		
District and Country	Italia		
	Tel. +39 0422 785502		
	Fax +39 0422 785959		
e-mail address of the competent person			
responsible for the Safety Data Sheet	labechem@dbmtecnologie.c	om	
1.4. Emergency telephone number			
For urgent inquiries refer to	Country: Italy		
	Organization: Istituto Superi	ore di Sanità, National Cer	nter for Chemicals
	Tel: +39 0649906140 and +39) 0649902064	
	Country: Poland	r Dangerous Substances	and Prenarations/Bureau for
	Chemical Substances and P	reparations	
	Address: Dowborczykow Str Phone: +48 42 25 38 400 Ea	reet 30/34 90-019 Lodz	
	Country: France	(. ++0 +2 23 30 +++	
	Organization: Centre antipoi	son et de toxicovigilance e	de Nancy http://de.Tassigny/54035 Nancy
	Cedex		the de rassigny 54055 Mancy
	Tel : +33 3 83 22 50 50		
	Organization: Instituto Nacio	onal de Toxicología y Cien	cias Forenses
	Address: Calle José Echega	ray, 4 28032 Las Rozas de	Madrid, Madrid
	Country: Ireland		
	Organization: Beaumont Ho	spital - National Poisons Ir	formation Centre
	Tel: +353 1 8092566	Jubiin 9	
	Country: Romania	formara Taviaslasias din	
	Organization: Birou KSI SI In	normare roxicologica din	



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ECOLOGIA - CHIN	IICA	01257 - PROMET	17-MS	Replaced revision:10 (Printed on: 28/11/2023)
		Address: Str. D. Leonte Nr.1 Tel: +40 21 318 36 06 (interv Country: Slovenia Organization: Chemicals Of Address: Ajdovščina 4, SI - Tel: +386 1 400 60 51, Fax: + Country: Slovakia Organization: National toxic Address: University Hospita Toxicology, Limbova 5, 833 Tel: + 421 2 5465 2307 Country: The Netherlands Organization: National Poiss Address: University Medica Utrecht NL Tel: 0031 (0) 88 75 555 55	I-3 ral orar 8.00-16.00) fice (CORS), Ministry of Hea 1000 Ljubljana -386 1 400 62 66 cological information centre al Bratislava Department of 0 05 Bratislava ons Information Center I Center (UMC) Utrecht, Heic	Ith Dccupational Medicine and lelberglaan 100, 3584 CX
SECTION 2. Hazar	as identification			
2.1. Classification of the su	bstance or mixture			
The product is classified as supplements). The product th Any additional information co	hazardous pursuant to th nus requires a safety datas ncerning the risks for healt	ne provisions set forth in (EC) heet that complies with the prov th and/or the environment are gi	Regulation 1272/2008 (CLP) risions of (EU) Regulation 202 iven in sections 11 and 12 of t	(and subsequent amendments and)/878. nis sheet.
Hazard classification and ind	ication:			
Skin corrosion, category 1A	ication:	H314	Causes severe skin burns a	nd eve damage.
Serious eye damage, categ	jory 1	H318	Causes serious eye damag	e.
Specific target organ toxicit	y - single exposure, catego	ory 3 H335	May cause respiratory irrita	ion.
2.2. Label elements				
Hazard labelling pursuant to	EC Regulation 1272/2008	(CLP) and subsequent amendm	nents and supplements.	
Hazard pictograms:				
Signal words:	Danger			
Hazard statements:				
H314 H335	Causes severe skin burns May cause respiratory irrita	and eye damage. ation.		
Precautionary statements:				
P260 P305+P351+P338	Do not breathe dust / fume IF IN EYES: Rinse cautiou rinsing.) / gas / mist / vapours / spray. Isly with water for several minute	es. Remove contact lenses, if	present and easy to do. Continue



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P303+P361+P353 P280 P310 P264 P301+P330+P331 P403+P233	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ take a shower. Wear protective gloves/ protective clothing / eye protection / face protection. Immediately call a POISON CENTER or a doctor. Wash the skin thoroughly after handling. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Store in a well-ventilated place. Keep container tightly closed.
Contains:	2-AMINOETHANOL
2.3. Other hazards	

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification 2-AMINOETHANOL	x = Conc. %	Classification (EC) 1272/2008 (CLP)
INDEX 603-030-00-8	25 ≤ x < 30	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1A
EC 205-483-3		H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412 LD50 Oral: 1515 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mo/l
CAS 141-43-5		
REACH Reg. 01-2119486455-28		
2,2',2"-NITRILOTRITHANOL		
INDEX -	20 ≤ x < 25	Substance with a community workplace exposure limit.
EC 203-049-8		
CAS 102-71-6		
REACH Reg. 01-2119486482-31		
CITRIC ACID		
INDEX -	10 ≤ x < 15	Eye Irrit. 2 H319
EC 201-069-1		
CAS 5949-29-1		
REACH Reg. 01-2119457026-42		
2-Fenilfenol (ISO)		
INDEX 604-020-00-6	0 ≤ x < 1	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=1
EC 201-993-5		
CAS 90-43-7		
REACH Reg. 01-2119511183-53		



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The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.



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6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

FU	OFL FU	Directive (EU) 2022/431: Directive (EU) 2019/1831: Directive (EU) 2019/130: Directive (EU) 2019/983:
	01110	Directive (EU) 2017/2398: Directive (EU) 2017/164: Directive 2009/161/EU: Directive 2006/15/EC: Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

2-AMINOETHANOL

Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks /
						Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	2,5	1	7,6	3	
Predicted no-effect concentration	- PNEC					
Normal value in fresh water				0,08		mg/l
Normal value in marine water				0		mg/l
Normal value for fresh water sedi	ment			0,42		mg/kg
Normal value for marine water se	diment			0,04		mg/kg
Normal value for water, intermitte	nt release			0,02		mg/l



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Normal value of STP microorga	anisms			100	mg	//		
Normal value for the terrestrial	compartment			0,03	mg	/kg		
Health - Derived no-effect	t level - DNEL / C Effects on consumers	MEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute svstemic	Chronic local	Chronic systemic
Oral			VND	3,75 mg/kg		oyotonno		0,000
Inhalation			2 mg/m3	VND			3,3 mg/m3	VND
Skin			VND	0,24 mg/kg bw/d			VND	1 mg/kg bw/c
2,2',2"-NITRILOTRIETHAN	NOL							
Type	Country	TWA/8h		STEL/15min		Remarks	s /	
		mg/m3	ppm	mg/m3	ppm	Observa	uons	
OEL	EU	5					ACGIH 2	011
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,32	mg	//		
Normal value in marine water				0,032	mg	//		
Normal value for fresh water se	ediment			1,7	mg	/kg		
Normal value for marine water	sediment			0,17	mg	/kg		
Normal value for water, intermi	ttent release			5,12	mg	/I		
Normal value of STP microorga	anisms			10	mg	/I		
Normal value for the terrestrial	compartment			0,151	mg	/kg		
Health - Derived no-effect	t level - DNEL / D Effects on consumers	MEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic systemic
Oral			VND	13 mg/kg				
Inhalation			VND	1,24 mg/m3			VND	5 mg/m3
Skin			VND	3,1 mg/kg bw/d			VND	6,3 mg/kg bw/d
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,44	mg	//		
Normal value in marine water	dimont			0,044	mg	//		
Normal value for marina water se				34,0	mg	/kg		
Normal value for the terrestrial	compartment			33.1	ma	/kg /ka		
	eeparanon			00,1				
2-Fenilfenol (ISO) Health - Derived no-effect	t level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Skin				1,∠ mg/m3				21.84 mg/kg
				bw/d				∠1,04 mg/kg bw/d



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Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance	Value liquid	Information
Colour	colourless	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	> 100 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	



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Flash point	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
рН	9,8
Kinematic viscosity	not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	1,1 g/cm3
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available



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SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

2-AMINOETHANOL

LD50 (Dermal): STA (Dermal):

LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours): > 20 mg/l >2000 mg/kg >2000 mg/kg

2504 mg/kg Rat 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) 1515 mg/kg Rat; OECD TG 401 1,48 mg/l/4h Rat

11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)



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2,2',2"-NITRILOTRIETHANOL

LD50 (Dermal): LD50 (Oral):

CITRIC ACID

LD50 (Dermal): LD50 (Oral):

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

> 2000 mg/kg Rat 5400 mg/kg Mouse

> 2000 mg/kg Rabbit

6400 mg/kg Rat



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STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

2,2',2"-NITRILOTRIETHANOL	
LC50 - for Fish	11800 mg/l/96h Pimephales
EC50 - for Crustacea	609,88 mg/l/48h Daphnia - Ceriodaphnia dubia
EC50 - for Algae / Aquatic Plants	512 mg/l/72h Scenedesmus subspicatus

2-AMINOETHANOL	
LC50 - for Fish	349 mg/l/96h Cyprinus carpio
EC50 - for Crustacea	65 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	2,5 mg/l/72h Pseudokirchneriella subcapitata

CITRIC ACID LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants **12.2. Persistence and degradability** 440 mg/l/96h 1535 mg/l/48h

425 mg/l/72h

2,2',2"-NITRILOTRIETHANOL Rapidly degradable 2-AMINOETHANOL Rapidly degradable > 90%; 21 d CITRIC ACID Solubility in water Rapidly degradable > 97%; 28 d

> 10000 mg/l



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12.3. Bioaccumulative potential

CITRIC ACID

BCF

3,2

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 2491

14.2. UN proper shipping name

ADR / RID:	ETHANOLAMINE or ETHANOLAMINE SOLUTION
IMDG:	ETHANOLAMINE or ETHANOLAMINE SOLUTION
IATA:	ETHANOLAMINE or ETHANOLAMINE SOLUTION

14.3. Transport hazard class(es)

6.**	GN	EM.
ECOLOG	IA - CI	HIMICA

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ADR / RID:	Class: 8	Label: 8	A CONTRACTOR OF THE OFFICE OFF	
IMDG:	Class: 8	Label: 8		
IATA:	Class: 8	Label: 8		
14.4. Packing gro	oup		V	
ADR / RID, IMD	G, IATA:	Ш		
14.5. Environmer	ntal hazards			
ADR / RID	NO			
IMDG:	NO			
IATA:	NO			
14.6. Special pred	cautions for user			
ADR / RID:		HIN - Kemler: 80	Limited Quantities: 5	Tunnel restriction
		Special provision: -	L	6666. (L)
IMDG:		EMS: F-A, S-B	Limited Quantities: 5	
IATA:		Cargo:	L Maximum quantity: 60 L	Packaging instructions:
		Pass.:	Maximum quantity: 5 L	856 Packaging instructions:
		Special provision:	A3, A803	852
14.7. Maritime tra	ansport in bulk acco	ording to IMO instruments		
Information not rel	levant			
SECTION 4	E Degulatory	information		
SECTION	5. Regulatory	Information		
15.1. Safety, he	alth and environme	ental regulations/legislation specific for	or the substance or mixture	
Seveso Category	- Directive 2012/18/E	EU: None		
Restrictions relatir	ng to the product or c	contained substances pursuant to Annex	XVII to EC Regulation 1907/2006	
Product Point		3		
FOIL		5		
Contained substar	nce			



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Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

75

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.



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H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H315	Causes skin irritation.	
H335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
H412	Harmful to aquatic life with long lasting effects.	
EGEND.		
ADR: European Agreemen	t concerning the carriage of Dangerous goods by Road	
ATE: Acute Toxicity Estima	ate	
CAS: Chemical Abstract Se	ervice Number	
CE50: Effective concentrat	ion (required to induce a 50% effect)	
 CE: Identifier in ESIS (European archive of existing substances) 		

- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 4.
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Revision nr. 11

Dated 28/11/2023

Printed on 22/04/2024 Page n. 16/16 Replaced revision:10 (Printed on: 28/11/2023)

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18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)

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- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
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IFA GESTIS website

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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

03 / 14.