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Safety data sheet

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

1.1. Product identifier

Code: Z35

Product name Zinco Brillante
Chemical name and synonym protettivo Zincante

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

Intended use Zinc protective

1.3. Details of the supplier of the safety data sheet

Name GNOCCHI ECO- SPRAY S.R.L.
Full address Via per Pavone del Mella sn

District and Country 25020 Cigole (BS)

Italia

Tel. +39 030 9959674 Fax +39 030 959265

e-mail address of the competent person

responsible for the Safety Data Sheet info@gnocchiecospray.com

1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI Ospedale Niguarda tel: +39 02 66101029

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, acute toxicity,	H400	Very toxic to aquatic life.
category 1		
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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Signal words:

Danger

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.
P264 Wash . . . thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . . P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing. P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

Contains: NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

ACETONE

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

2.3. Other hazards.

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

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. Conc. %. Classification 1272/2008

(CLP).

BUTANE

CAS. 106-97-8 22,5 - 24 Flam. Gas 1 H220, Note C U

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EC. 203-448-7

INDEX. 601-004-00-0

PROPANE

CAS. 74-98-6

22.5 - 24

Flam. Gas 1 H220, Note U

EC. 200-827-9

INDEX. 601-003-00-5

NAPHTHA (PETROLEUM), HYDROTREATED

LIGHT

CAS. 64742-49-0

18 - 19,5

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic

Chronic 2 H411, Note P

EC. 265-151-9

INDEX. 649-328-00-1

Reg. no. 012119484561-34-xxxx

ACETONE

CAS. 67-64-1

15 - 16,5

Flam. Liq. 2 H225, Eye Irrit. 2

H319, STOT SE 3 H336,

EUH066

EC. 200-662-2

INDEX. 606-001-00-8

XYLENE (MIXTURE OF ISOMERS)

CAS. 1330-20-7

8 - 9 Flam. Liq. 3 H226, Acute Tox.

4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C

EC. 215-535-7

INDEX. 601-022-00-9

ZINC POWDER - ZINC DUST (100% - metallic

element)

CAS. 7440-66-6 7 - 8 Aquatic Acute 1 H400 M=10,

Aquatic Chronic 1 H410

M=10

EC. 231-175-3

INDEX. 030-001-01-9

ALUMINIUM POWDER (STABILIZED) (100% -

metallic element)

5 - 6 CAS. 7429-90-5

Flam. Sol. 1 H228, Waterreact. 2 H261, Note T

EC. 231-072-3

INDEX. 013-002-00-1

Note: Upper limit is not included into the range.

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

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INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the 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.

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.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions.

Do not disperse in the environment.

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6.3. Methods and material for containment and cleaning up.

Use inert absorbent material to soak up leaked product. 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.

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities.

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C/122°F, away from any combustion sources.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;
		Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

PROPANE

Threshold Limit Value.			
Туре	Country	TWA/8h	STEL/15min

Revision nr. 5 **GNOCCHI ECO- SPRAY S.R.L.** Dated 22/02/2016 Printed on 25/02/2016 Z355 - Bright zinc Page n. 6/15 mg/m3 ppm mg/m3 ppm AGW DEU 1000 7200 1800 4000 MAK DEU 1800 1000 7200 4000 NDS POL 1800 TLV-ACGIH 1000 **BUTANE** Threshold Limit Value. STEL/15min Country TWA/8h Type mg/m3 mg/m3 ppm ppm DEU 2400 9600 **AGW** 1000 4000 MAK DEU 2400 1000 9600 4000 ESP VLA 800 VLEP FRA 1900 800 WEL GRB 1450 600 1810 750 NDS POL 1900 3000 TLV-ACGIH 2377 1000 NAPHTHA (PETROLEUM), HYDROTREATED LIGHT Threshold Limit Value. TWA/8h STEL/15min Country Type mg/m3 mg/m3 ppm ppm OEL ΕU 72 Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers. workers Acute local Acute local Route of exposure Acute systemic Chronic local Chronic Acute Chronic local Chronic systemic systemic Oral. 1301 mg/kg/d 1301 mg/kg/d Inhalation. 1137 mg/m3 1137 mg/m3 5306 mg/m3 5306 mg/m3 Skin. 1377 mg/kg/d 1377 mg/kg/d 13964 13964 mg/kg/d mg/kg/d **ACETONE** Threshold Limit Value. Type Country TWA/8h STEL/15min mg/m3 mg/m3 ppm ppm 2400 AGW DEU 1200 500 1000 MAK DEU 1200 500 2400 1000 VLA **ESP** 1210 500 VLEP FRA 500 2420 1000 1210 1210 WEL GRR 500 3620 1500 TLV 1210 500 ITA NDS 1800 POL 600 OEL ΕU 1210 500 TLV-ACGIH 1187 500 1781 750 XYLENE (MIXTURE OF ISOMERS) Threshold Limit Value. Country TWA/8h STEL/15min Type mg/m3 mg/m3 ppm ppm

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AGW	DEU	440	100	880	200	SKIN.	
MAK	DEU	440	100	880	200	SKIN.	
VLA	ESP	221	50	442	100	SKIN.	
VLEP	FRA	221	50	442	100	SKIN.	
WEL	GRB	220	50	441	100		
TLV	ITA	221	50	442	100	SKIN.	
NDS	POL	100					
OEL	EU	221	50	442	100	SKIN.	
TLV-ACGIH		434	100	651	150		
ZINC POWDER - ZINC DU	JST						
Threshold Limit Value. Type							

mg/m3

0,4

ppm

RESP.

ALUMINIUM	POWDER	(STABII	IZFD)

Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	0,3				RESP.	
MAK	DEU	4				INHAL.	
MAK	DEU	1,5					
VLA	ESP	10					
VLEP	FRA	5					
WEL	GRB	4					
NDS	POL	2,5				INHAL.	
NDS	POL	1,2				RESP.	
TLV-ACGIH		1	0,9				

Legend:

MAK

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

mg/m3

0,1

ppm

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

TLV of solvent mixture: 740 mg/m3.

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. 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

None required.

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SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective 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, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

ENVIRONMENTAL EXPOSURE CONTROLS.

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Not available.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance aerosol Colour silver

Odour characteristic of solvent Odour threshold. Not available.

Not available. Melting point / freezing point. Not available. Initial boiling point. < Not applicable. Boiling range. Not available. Flash point. < Not applicable. Evaporation Rate Not available. flammable gas Flammability of solids and gases Lower inflammability limit. Not available. Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available Vapour pressure. Not available. Not available. Vapour density Not available. Relative density. Solubility insoluble Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available. Not available Decomposition temperature. Viscosity Not available. Not available. Explosive properties

9.2. Other information.

Oxidising properties

 Solid content.
 12,00 %

 VOC (Directive 2010/75/EC) :
 88,00 %

 VOC (volatile carbon) :
 70,25 %

SECTION 10. Stability and reactivity.

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10.1. Reactivity.

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

ACETONE: decomposes under the effect of heat.

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.

ZINC POWDER - ZINC DUST: risk of explosion on contact with: ammonium nitrate, ammonium sulphide, barium peroxide, lead nitride, chlorates, chromium trioxide, sodium hydroxide solutions, oxidising agents, performic acid, acids, tetrachloromethane, water. May react dangerously with alkali hydroxides, bromine pentafluoride, calcium chloride solution, fluorine, hexachloroethane, nitrobenzene, potassium dioxide, carbon disulphide, silver. Reacts with acids and strong alkalis developing hydrogen.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

10.4. Conditions to avoid.

Avoid overheating.

ACETONE: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

ZINC POWDER - ZINC DUST: water, strong alkalis and acids. ACETONE: acid and oxidising substances.

10.6. Hazardous decomposition products.

ACETONE: ketenes and other irritating compounds.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using

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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.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral).3523 mg/kg Rat LD50 (Dermal).4350 mg/kg Rabbit LC50 (Inhalation).26 mg/l/4h Rat

SECTION 12. Ecological information.

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity.**

ZINC POWDER - ZINC

DUST

LC50 - for Fish. 7,1 mg/l/96h Nothobranchius guentheri

EC50 - for Crustacea. 2,8 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic 0,015 mg/l/72h Pseudokirchneriella subcapitata

Plants.

12.2. Persistence and degradability.

ALUMINIUM POWDER

(STABILIZED)

Solubility in water. 0 mg/l

Biodegradability: Information not available.

ZINC POWDER - ZINC

DUST

Solubility in water. mg/l 0,1 - 100

Biodegradability: Information not available.

XYLENE (MIXTURE OF

ISOMERS)

Solubility in water. mg/l 100 - 1000

Biodegradability: Information not available.

BUTANE

Solubility in water. mg/l 0,1 - 100

Rapidly biodegradable.

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PROPANE

mg/I 0,1 - 100 Solubility in water.

Rapidly biodegradable.

ACETONE

Rapidly biodegradable.

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT Rapidly biodegradable.

12.3. Bioaccumulative potential.

XYLENE (MIXTURE OF

ISOMERS)

Partition coefficient: n-3,12 octanol/water.

BCF. 25,9

BUTANE

Partition coefficient: n-1,09

octanol/water.

PROPANE

Partition coefficient: n-1,09

octanol/water.

ACETONE

Partition coefficient: n--0,23

octanol/water.

3 BCF.

12.4. Mobility in soil.

XYLENE (MIXTURE OF

ISOMERS)

Partition coefficient: 2,73

soil/water.

NAPHTHA (PETROLEUM),

HYDROTREATED LIGHT

Partition coefficient: 1,78

soil/water.

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 greater than 0,1%.

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12.6. 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.

ADR / RID, IMDG,

1950

IATA:

14.2. UN proper shipping name.

ADR / RID: AEROSOLS,

FLAMMABLE IMDG: AEROSOLS

(NAPHTHA (PETROLEUM), HYDROTREATE

D LIGHT)

IATA: AEROSOLS,

FLAMMABLE

14.3. Transport hazard class(es).

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1



14.4. Packing group.

ADR / RID, IMDG, IATA:

14.5. Environmental hazards.

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ADR / RID: Environmentally

Hazardous.

IMDG: Marine Pollutant.

IATA: NO

IMDG:

IATA:

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user.

ADR / RID: HIN - Kemler: --

Limited Quantities: 1

Tunnel restriction code: (D)

L

Special Provision: -

EMS: F-D. S-U

Pass.:

Limited Quantities: 1

L

Cargo:

Maximum quantity: 150

Packaging instructions:

Kg Maximum 203
Packaging instructions:

quantity: 75 Kg

Kg A145, A167, 203

Special Instructions:

A802

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. 8, 9i

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 40

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

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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.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

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

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1
Aerosol 3 Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, 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 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

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Very toxic to aquatic life with long lasting effects.

Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

H410

H411

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- Regulation (EU) 1272/2008 (CLP) of the European Parliament
 Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

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.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 15 / 16.