

230 - NORPHEN 200 HCR AUTOESTINGUENTE NF (B)

Revision nr.3 Dated 11/12/2019 Printed on 12/12/2019
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Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: 230

Product name NORPHEN 200 HCR AUTOESTINGUENTE NF (B)

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

BI-COMPONENT EPOXY COATING FOR FLOORS WITH HIGH CHEMICAL AND

MECHANICAL RESISTANCE.

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Via Fornace Vecchia, 79 Full address

District and Country 31058 Susegana (TV)

Italia

Tel. +39 0438-437511 +39 0438-435155 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet annabreda@nordresine.com

Product distribution by: NORD RESINE S.p.A.

1.4. Emergency telephone number

For urgent inquiries refer to +39 0438 437511

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 (EU) Regulation 2015/830.

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:

Reproductive toxicity, category 2	H361fd	Suspected of damaging fertility. Suspected of damaging
		the unborn child.
Acute toxicity, category 4	H302	Harmful if swallowed.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

2.2. Label elements

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

Hazard pictograms:





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SECTION 2. Hazards identification .../>>

Signal words: Danger

Hazard statements:

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H302+H332 Harmful if swallowed or if inhaled.

May cause damage to organs through prolonged or repeated exposure. H373

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

Immediately call a POISON CENTER / doctor. P310 P264 Wash thoroughly with water and soap after handling.

Contains: 1-(2-AMINOETHYIL)PIPERAZINE

N-[(9E)-octadec-9-en-1-yl]propane-1,3-diamine

M-PHENYLENEBIS (METHYLAMINE)

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

BENZYL ALCOHOL

VOC (Directive 2004/42/EC):

Two-pack performance coatings.

VOC given in g/litre of product in a ready-to-use condition : 134.93 Limit value: 500,00

- Catalysed with: 300 00 % NORPHEN 200 HCR AUTOESTINGUENTE NF (A)

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

3.2 Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

BENZYL ALCOHOL

100-51-6 $30 \le x < 50$ Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319 CAS

202-859-9 FC. INDEX 603-057-00-5 01-2119492630-38 Rea. no. M-PHENYLENEBIS (METHYLAMINE)

1477-55-0 $9 \le x < 20$ Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, CAS

Skin Sens. 1B H317, Aquatic Chronic 3 H412

FC 216-032-5

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Reg. no. 01-2119480150-50

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

2855-13-2 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, CAS 5 ≤ x < 9

Skin Sens. 1 H317, Aquatic Chronic 3 H412

FC. 220-666-8 INDEX 612-067-00-9 01-2119514687-32 Reg. no.

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, CAS $113930-69-1 5 \le x < 9$

Skin Sens. 1 H317, Aquatic Chronic 3 H412

FC 500-302-7

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SECTION 3. Composition/information on ingredients/>>

1-(2-AMINOETHYIL)PIPERAZINE

Repr. 2 H361fd, Acute Tox. 3 H311, Acute Tox. 4 H302, STOT RE 1 H372, 140-31-8 $5 \le x < 9$ CAS

Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Chronic 3 H412

FC. 205-411-0 612-105-00-4 INDEX 01-2119471486-30 Reg. no.

SALICYLIC ACID

CAS 69-72-7 $1 \le x < 3$ 200-712-3

Acute Tox. 4 H302, Eye Dam. 1 H318

EC

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Reg. no. 01-2119486984-17

N-[(9E)-octadec-9-en-1-yl]propane-1,3-diamine

CAS 7173-62-8 $1 \le x < 2.5$

Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 H318,

Aquatic Acute 1 H400 M=10

EC 230-528-9

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01-2119487002-46 Rea. no.

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

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).



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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.

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:

CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
SVN	Slovenija	Uradni list Republike Slovenije 04.12.2018 - Uradnem listu RS št. 78 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
	TLV-ACGIH	ACGIH 2019

BENZYL ALCOHOL									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	40	9,04	80	18,08				
AGW	DEU	22	5	44	10	SKIN	11		
NDS/NDSCh	POL	240							
MV	SVN	22	5	44	10	SKIN			



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SECTION 8. Exposure controls/personal protection/>>

M-PHENYLENEBIS (METHYLAMINE)									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min	Remarks / Observations				
		mg/m3	ppm	mg/m3 ppm					
MV	SVN	0,1							
TLV-ACGIH				0,018 (C)	SKIN				

SALICYLIC ACID									
Predicted no-effect cor	ncentration	- PNEC							
Normal value in fresh water						0,2	mg/l		
Normal value in marine water						0,02	mg/l		
Normal value for fresh	h water sedi	ment				1,42	mg/kg		
Normal value for mar	Normal value for marine water sediment						mg/kg		
Health - Derived no-effe	Health - Derived no-effect level - DNEL / DMEL								
	Effects or	n consumers			Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Skin							VND	2	
								mg/kg	

(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.

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

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 II 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 airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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

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.

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Information **Properties** Value Appearance liquid



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Not available

Not available

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SECTION 9. Physical and chemical properties .../>>

Colour **TYPICAL** Odour amino Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point 200 °C Boiling range Not available Flash point °C 90 **Evaporation Rate** Not available Not available 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

Relative density 1,07 kg/L Solubility soluble in organic solvents

Partition coefficient: n-octanol/water
Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

Not available
Not available
Not available
Not available

9.2. Other information

Vapour pressure

Vapour density

VOC (Directive 2004/42/EC): 35,00 % - 374,50 g/litre VOC (volatile carbon): 27,19 % - 290,90 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

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.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

May react dangerously with: strong oxidising agents, concentrated inorganic acids.

10.4. Conditions to avoid

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

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Avoid contact with: strong acids, strong oxidants.

10.5. Incompatible materials

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

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 toxicological effects

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

LC50 (Inhalation) of the mixture: 13,92 mg/l 762,54 mg/kg LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture: >2000 mg/kg

M-PHENYLENEBIS (METHYLAMINE)

> 200 mg/kg Rat - Sprague-Dawley LD50 (Oral)

LD50 (Dermal) 3100 mg/kg Rat 1,34 mg/l Rat - Wistar LC50 (Inhalation)

BENZYL ALCOHOL

LD50 (Oral) 1230 mg/kg Rat LD50 (Dermal) 2000 mg/kg Rabbit > 4,1 mg/l/4h Rat LC50 (Inhalation)

1-(2-AMINOETHYIL)PIPERAZINE

1470 mg/kg Rat LD50 (Oral) LD50 (Dermal) 866 mg/kg Rabbit

SALICYLIC ACID

LD50 (Oral) 891 mg/kg Rat LD50 (Dermal) > 2 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY



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Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Suspected of damaging fertility - Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

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

12.1. Toxicity

M-PHENYLENEBIS (METHYLAMINE)

87,6 mg/l/96h Oryzias latipes LC50 - for Fish 15,2 mg/l/48h Daphnia magna EC50 - for Crustacea

20,3 mg/l/72h Pseudokirchnerella subcapitata EC50 - for Algae / Aquatic Plants

BENZYL ALCOHOL

10 mg/l/96h Bluegill LC50 - for Fish

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

110 mg/l/96h Fish LC50 - for Fish EC50 - for Crustacea 23 mg/l/48h Daphnia

1-(2-AMINOETHYIL)PIPERAZINE

2190 mg/l/96h Fish LC50 - for Fish EC50 - for Crustacea 58 mg/l/48h Daphnia

N-[(9E)-octadec-9-en-1-yl]propane-1,3-diamine

0,1 mg/l/48h Daphnia magna EC50 - for Crustacea

12.2. Persistence and degradability

M-PHENYLENEBIS (METHYLAMINE)

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

1000 - 10000 mg/l Solubility in water

NOT rapidly degradable

12.3. Bioaccumulative potential

M-PHENYLENEBIS (METHYLAMINE)

Partition coefficient: n-octanol/water 0,18

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

12.4. Mobility in soil



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SECTION 12. Ecological information .../>>

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 greater than 0,1%.

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, IATA: 2735

14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS

(METHYLAMINE); 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE)

IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS

(METHYLAMINE); 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE)

IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS

(METHYLAMINE); 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

ΕN



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SECTION 14. Transport information .../>>

14.6. Special precautions for user

HIN - Kemler: 80 ADR / RID: Limited Quantities: 5 L Tunnel restriction code: (E)

Special Provision: -EMS: F-A, S-B Limited Quantities: 5 L IMDG:

Maximum quantity: 60 L Packaging instructions: 856 IATA: Cargo: Pass.: Maximum quantity: 5 L Packaging instructions: 852

> Special Instructions: A3, A803

14.7. Transport in bulk according to Annex II of Marpol 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 - Directive 2012/18/EC: None

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

Product

Point

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

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.

VOC (Directive 2004/42/EC):

Two-pack performance coatings.

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:

Reproductive toxicity, category 2 Repr. 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1 STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1A Skin sensitization, category 1A Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Toxic in contact with skin H311

ΕN



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SECTION 16. Other information .../>>

H302+H332 Harmful if swallowed or if inhaled.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

Harmful if inhaled. H332

Causes damage to organs through prolonged or repeated exposure. H372 May cause damage to organs through prolonged or repeated exposure. H373

Causes severe skin burns and eye damage. H314

Causes serious eye damage. H318 Causes serious eye irritation. H319 May cause an allergic skin reaction. H317

H400 Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects. H412

LEGEND:

- 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

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. 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
- 7. 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
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 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





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SECTION 16. Other information .../>>

- IFA GESTIS website- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01/02/03/04/05/07/08/09/10/11/12/14/15/16. Changed TLVs in section 8.1 for following countries: CZE, DEU, SVN, TLV-ACGIH,