

SAFETY DATA SHEET



NeoRez R-972

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

1.1 Product identifier

Product name : NeoRez R-972
Internal code : 030375WW43712
Chemical formula : Not applicable.

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

Recommended use : Resin used in the production of coatings, inks and/or adhesives.

1.3 Details of the supplier of the safety data sheet

Supplier : DSM Coating Resins B.V. Tel: +31 416 752222
PO Box 123 www.dsmcoatingresins.com
5140 AC Waalwijk
Netherlands
e-mail address of person responsible for this SDS : DSMRESINS.SDS@dsm.com (Communication in English only please)

1.4 Emergency telephone number

Emergency telephone number : Belgium: +32 3 575 5555

Remarks :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Repr. 1B, H360D (Unborn child)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

2.2 Label elements

Hazard pictograms :



Signal word : Danger
Hazard statements : H360D - May damage the unborn child.
Supplemental label elements : Not applicable.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves: > 8 hours (breakthrough time): butyl rubber (0.70 mm); < 1 hour (breakthrough time): nitrile rubber (0.5 mm). Wear eye or face protection. Wear protective clothing.
Response : P308 + P313 - IF exposed or concerned: Get medical attention.
Storage : P405 - Store locked up.
Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients : N-methyl-2-pyrrolidone

2.3 Other hazards

Other hazards which do not result in classification : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.1 Substances / 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]
<input checked="" type="checkbox"/> methyl-2-pyrrolidone	REACH #: 01-2119472430-46 EC: 212-828-1 CAS: 872-50-4 Index: 606-021-00-7	<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360D (Unborn child) STOT SE 3, H335
Nonylphenol, branched, ethoxylated	CAS: 68412-54-4	<1	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
triethylamine	REACH #: 01-2119475467-26 EC: 204-469-4 CAS: 121-44-8 Index: 612-004-00-5	<1	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Small fire

Suitable	: Use dry chemical or CO ₂ .
Not suitable	: None known.

Large fire

Suitable	: Use water, foam or dry chemical powder.
Not suitable	: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids, nitrogen oxides (NO, NO ₂ etc.), ammonia (NH ₃), amines.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Remarks	: The material will not support combustion unless the water has evaporated.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store in original container, protected from direct sunlight. Sensitive to frost.

7.3 Specific end use(s)


- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
 -methyl-2-pyrrolidone	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 80 mg/m ³ 15 minutes. STEL: 20 ppm 15 minutes. TWA: 40 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
triethylamine	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 17 mg/m ³ 15 minutes. TWA: 2 ppm 8 hours. TWA: 8 mg/m ³ 8 hours. STEL: 4 ppm 15 minutes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Yellowish, translucent.
Odour	: Odourless.
Odour threshold	: Not available.
pH	: 7.7 to 8.3
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 100 °C
Softening range	: Not available.
Flash point	: >100 °C (estimate)
Flammability (solid, gas)	: Not available.
Evaporation rate	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: 2.3 kPa
Vapour density	: Not available.
Relative density	: 1.03 (Water = 1)
Density (g/cm ³)	: 1.03 g/cm ³ (20°C)
Bulk density	: Not available.
Solubility	: Partially soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): 50 to 150 mPa·s (50 to 150 cP) Kinematic (room temperature): 0.97 cm ² /s (97 cSt) Kinematic (40°C): >0.205 cm ² /s (>20.5 cSt)
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information

Remarks : Miscible in water.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: No specific data.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Nonylphenol, branched, ethoxylated triethylamine	LC50 Inhalation Dusts and mists	Rat	>5.1 mg/l	4 hours
	LD50 Dermal	Rabbit	8000 mg/kg	-
	LD50 Dermal	Rat	7000 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	3600 mg/kg	-
	LD50 Oral	Rat	4150 mg/kg	-
	LD50 Dermal	Rabbit	4400 mg/kg	-
	LC50 Inhalation Vapour	Rat	7.1 mg/l	4 hours
	LD50 Dermal	Rabbit	570 mg/kg	-
	LD50 Oral	Rat	460 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral Dermal Inhalation (vapours)	39153 mg/kg 66202.1 mg/kg 824.6 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Nonylphenol, branched, ethoxylated	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Non-irritating	Mammal - species unspecified	0	-	-
triethylamine	Eyes - Irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Rabbit	-	365 milligrams	-
	Skin - Visible necrosis	Rabbit	-	1 to 15 minutes	26 hours
	Eyes - Cornea opacity	Rabbit	3	-	-

Conclusion/Summary

Eyes : Not available.

Skin : Not available.

Respiratory : Not available.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Triethylamine	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin : Not available.

Respiratory : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Nonylphenol, branched, ethoxylated triethylamine	Ames test	Experiment: In vitro Subject: Bacteria	Negative
	- Ames test	Experiment: In vitro Subject: Bacteria	Negative
	-	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> -methyl-2-pyrrolidone	Category 3	Not applicable.	Respiratory tract irritation
triethylamine	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Potential acute health effects**Eye contact** : No known significant effects or critical hazards.**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.**Skin contact** : No known significant effects or critical hazards.**Ingestion** : Corrosive to the digestive tract. Causes burns.**Symptoms related to the physical, chemical and toxicological characteristics****Eye contact** : No specific data.**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations**Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced foetal weight
increase in foetal deaths
skeletal malformations**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations**Potential chronic health effects**

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> ethylamine	Sub-chronic NOAEC Inhalation Vapour	Rat	247 ppm	28 weeks; 6 hours per day

Conclusion/Summary : Not available.**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.**Carcinogenicity** : No known significant effects or critical hazards.**Mutagenicity** : No known significant effects or critical hazards.**Teratogenicity** : May damage the unborn child.**Developmental effects** : No known significant effects or critical hazards.**Fertility effects** : No known significant effects or critical hazards.**Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
<input checked="" type="checkbox"/> -methyl-2-pyrrolidone	-	-	-	None.	-	-
triethylamine	A4	-	-	-	-	-

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure	Effects
<input checked="" type="checkbox"/> -methyl-2-pyrrolidone	Acute EC50 >9000 mg/l	Bacteria	48 hours	-
	Acute EC50 >1000 mg/l	Daphnia	24 hours	-
	Acute EC50 >600 mg/l	Micro-organism	0.5 hours	-
	Acute IC50 >500 mg/l	Algae	72 hours	-
	Acute LC50 >500 mg/l	Fish	96 hours	-
	Acute LC50 832 ppm Fresh water	Fish - Lepomis macrochirus	96 hours	Mortality
	Chronic NOEC 12.5 mg/l	Daphnia	21 days	-
Nonylphenol, branched,	Acute LC50 7.9 mg/l Fresh	Fish	96 hours	-

ethoxylated triethylamine	water				
	Acute EC50 1.167 mg/l	Algae	96 hours	-	
	Acute EC50 95 mg/l	Bacteria	17 hours	-	
	Acute EC50 17 mg/l	Daphnia	48 hours	-	
	Acute LC50 36 mg/l	Fish	96 hours	-	
	Acute NOAEC 12 mg/l	Daphnia	48 hours	-	
	Acute NOEC 16 mg/l	Fish	-	-	
	Chronic LC50 137 mg/l	Fish	60 days	-	
	Chronic NOEC 7.1 mg/l	Daphnia	7 days	-	
Chronic NOEC 3.2 mg/l	Fish	60 days	-		

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> -methyl-2-pyrrolidone	301C Ready Biodegradability - Modified MITI Test (I)	73 % - Readily - 28 days	-	-
Nonylphenol, branched, ethoxylated	OECD 301B Ready Biodegradability - CO2 Evolution Test	44.5 % - Not readily - 28 days	-	-
triethylamine	OECD 301B Ready Biodegradability - CO2 Evolution Test	80 % - Readily - 21 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<input checked="" type="checkbox"/> -methyl-2-pyrrolidone	-	-	Readily
Nonylphenol, branched, ethoxylated	-	-	Not readily
triethylamine	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> -methyl-2-pyrrolidone	-0.46	0.2	low
triethylamine	1.45	<0.5	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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


EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<p>-methyl-2-pyrrolidone</p> <p>4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]</p>	Toxic to reproduction Substance of equivalent concern for environment	Candidate Candidate	ED/31/2011 ED/169/2012	6/30/2011 4/19/2013

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Restricted to professional users.

Other EU regulations

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
N-methyl-2-pyrrolidone	-	-	Repr. 1B, H360D (Unborn child)	-

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

National regulations**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Ingredient name	List name	Status
Not listed.		

Montreal Protocol (Annexes A, B, C, E)

Ingredient name	Status
Not listed.	

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Inform Consent (PIC)

Ingredient name	List name	Status
Not listed.		

UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
Not listed.		

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Repr. 1B, H360D (Unborn child)	Calculation method

Full text of abbreviated H statements

<p>H225 H302 H311 H314 H315 H318 H319 H331 H335 H360D (Unborn child) H411</p>	<p>Highly flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May damage the unborn child. Toxic to aquatic life with long lasting effects.</p>
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Full text of classifications [CLP/GHS]

<p>H Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Repr. 1B, H360D (Unborn child) Skin Corr. 1A, H314 Skin Irrit. 2, H315 STOT SE 3, H335</p>	<p>ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 LONG-TERM AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 1B SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</p>
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Alterations compared to the previous version : Alterations compared to the previous version are marked with a little (blue) triangle.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Sources of key data : Literature data and/or investigation reports are available through the manufacturer.

Internal code : 030375WW43712

Training advice : Handling of this substance or preparation is restricted to skilled personnel only.

Notice to reader

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

History

Date of printing : 1 April 2016.

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