

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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EGHS / English



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## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name** Zar® Exterior Water Based Polyurethane - All Gloss Levels

**Chemical name**  
Contains 1-Methyl-2-pyrrolidone

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

**Recommended Use** Clear Wood Finish - Varnish.

**Uses advised against** No information available.

### 1.3. Details of the supplier of the safety data sheet

**Supplier Name** United Gilsonite Laboratories

**Supplier Address** 1396 Jefferson Ave.  
Dunmore  
PA  
18509  
US

**Supplier Phone Number** Phone:570-344-1202  
Fax:570-969-7634  
Contact Phone570-344-1202

**Supplier Email** sales@ugl.com

For further information, please contact.

### 1.4. Emergency telephone number

**Emergency telephone** CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
+1-800-424-9300 (NORTH AMERICA)



Emergency telephone §45 - (EC)1272/2008	
Europe	112

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive Toxicity	Category 1B - (H360D)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

### 2.2. Label elements

Contains 1-Methyl-2-pyrrolidone



Signal word

Danger

#### Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H360D - May damage the unborn child

H335 - May cause respiratory irritation

EUH208 - Contains Poly(oxy-1,2-ethanediyl),.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydr...,

Poly(oxy-1,2-ethanediyl),

.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-, Bis

(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate EUH208 - May produce an allergic reaction

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/face protection

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

P321 - Specific treatment (see supplemental first aid instructions on this label)

P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Chemical name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	5 - 10%	Skin Irrit. 2 (H315) Repr. 1B (H360D) STOT SE 3 (H335) Eye Irrit. 2 (H319)	No data available
Triethylamine	204-469-4	121-44-8	1 - 5%	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1A (H314) Flam. Liq. 2 (H225) Acute Tox. 4 (H332)	No data available
Silica, amorphous, fumed, crystal-free	-	112945-52-5	< 1%	No data available	No data available
Poly(oxy-1,2-ethanediyl),.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydr...	400-830-7	104810-47-1	< 1%	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
Poly(oxy-1,2-ethanediyl),.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydr oxy-	400-830-7	104810-48-2	< 1%	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
Bis (1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate	255-437-1	41556-26-7	< 1%	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Manganese isooctanoate	253-508-1	37449-19-7	< 0.1%	No data available	No data available
Third Party Formulation (TP # 1172167)	Listed	-	0 - 10%	Repr. 2 (H361d)	No data available

### Full text of H- and EUH-phrases: see section 16

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
1-Methyl-2-pyrrolidone	872-50-4	X

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.

#### Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Get

medical attention if irritation develops and persists.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms**

Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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

**Note to physicians**

Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Hazardous Combustion Products**

Carbon oxides.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Special danger of slipping by leaking/spilling product.



**Other Information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	EU	United Kingdom	France	Spain	Germany
1-Methyl-2-pyrrolidone 872-50-4	S* TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 20 ppm	STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> TWA: 10 ppm TWA: 40 mg/m <sup>3</sup>	TWA: 40 mg/m <sup>3</sup> TWA: 10 ppm * STEL: 80 mg/m <sup>3</sup>	vía dérmica* STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> TWA: 10 ppm	TWA: 20 ppm TWA: 82 mg/m <sup>3</sup> S*



	STEL: 80 mg/m <sup>3</sup>	Sk*	STEL: 20 ppm	TWA: 40 mg/m <sup>3</sup>	
Triethylamine 121-44-8	S* TWA 2 ppm TWA 8.4 mg/m <sup>3</sup> STEL 3 ppm STEL 12.6 mg/m <sup>3</sup>	STEL: 4 ppm STEL: 17 mg/m <sup>3</sup> TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> Sk*	TWA: 1 ppm TWA: 4.2 mg/m <sup>3</sup> * STEL: 3 ppm STEL: 12.6 mg/m <sup>3</sup>	vía dérmica* STEL: 3 ppm STEL: 12.6 mg/m <sup>3</sup> TWA: 2 ppm TWA: 8.4 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 4.2 mg/m <sup>3</sup> S*
Third Party Formulation (TP # 1172167)	TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup> Skin	STEL: 30 ppm STEL: 150.3 mg/m <sup>3</sup> TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup> *	vía dérmica* TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> S*
<b>Chemical name</b>	<b>Italy</b>	<b>Portugal</b>	<b>Netherlands</b>	<b>Finland</b>	<b>Denmark</b>
1-Methyl-2-pyrrolidone 872-50-4	-	-	H* STEL: 80 mg/m <sup>3</sup> TWA: 40 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> iho*	TWA: 5 ppm TWA: 20 mg/m <sup>3</sup> H*
Triethylamine 121-44-8	TWA: 2 ppm TWA: 8.4 mg/m <sup>3</sup> STEL: 3 ppm STEL: 12.6 mg/m <sup>3</sup> pelle*	STEL: 3 ppm TWA: 1 ppm	H* STEL: 12.6 mg/m <sup>3</sup> TWA: 4.2 mg/m <sup>3</sup>	STEL: 1 ppm STEL: 4.2 mg/m <sup>3</sup> iho*	TWA: 1 ppm TWA: 4.1 mg/m <sup>3</sup> H*
Third Party Formulation (TP # 1172167)	TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup> pelle*	-	H* TWA: 45 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> iho*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> H*
<b>Chemical name</b>	<b>Austria</b>	<b>Switzerland</b>	<b>Poland</b>	<b>Norway</b>	<b>Ireland</b>
1-Methyl-2-pyrrolidone 872-50-4	H* STEL 20 ppm STEL 80 mg/m <sup>3</sup> TWA: 10 ppm TWA: 40 mg/m <sup>3</sup>	H* STEL: 40 ppm STEL: 160 mg/m <sup>3</sup> TWA: 20 ppm TWA: 80 mg/m <sup>3</sup>	P* STEL: 80 mg/m <sup>3</sup> TWA: 40 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 20 mg/m <sup>3</sup> H* STEL: 20 ppm STEL: 80 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> Sk*
Triethylamine 121-44-8	H* STEL 3 ppm STEL 12.6 mg/m <sup>3</sup> TWA: 2 ppm TWA: 8.4 mg/m <sup>3</sup>	STEL: 2 ppm STEL: 8.4 mg/m <sup>3</sup> TWA: 1 ppm TWA: 4.2 mg/m <sup>3</sup>	P* STEL: 9 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> H* STEL: 4 ppm STEL: 16 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 8.4 mg/m <sup>3</sup> STEL: 3 ppm STEL: 12.6 mg/m <sup>3</sup> Sk*
Silica, amorphous, fumed, crystal-free 112945-52-5	TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>	-	-	-
Manganese isooctanoate 37449-19-7	-	-	-	-	TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup>
Third Party Formulation (TP # 1172167)	H* TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup>	-	P* TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> H* STEL: 15 ppm STEL: 75 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50.1 mg/m <sup>3</sup> STEL: 30 ppm STEL: 150.3 mg/m <sup>3</sup> Sk*

**Biological occupational exposure limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
1-Methyl-2-pyrrolidone 872-50-4	-	-	-	20 70	150 mg/L
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
1-Methyl-2-pyrrolidone 872-50-4	-	-	-	-	20 mg/g creatinine 70 mg/g creatinine

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

## 8.2. Exposure controls

### Personal protective equipment

- Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.
- Hand Protection** Wear suitable gloves. Impervious gloves.
- Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Amber
<b>Odor</b>	Amine
<b>Color</b>	No information available
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u> <u>Method</u>
pH	8.5	ASTM E 70.07 (2015)
<b>Melting / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	100 °C	
<b>Flash Point</b>	No data available	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	1.02 g/L	ASTM 1475-13
<b>Water Solubility</b>	Soluble in water	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known

Viscosity 54-59 KU ASTM 2938.17

**9.2. Other information**

Softening Point No information available  
Molecular Weight No information available  
VOC Content (%) No information available  
EPA VOC (g/l) 79 (ISO 118990-2)  
Liquid Density No information available  
Bulk Density No information available  
Particle Size No information available  
Particle Size Distribution No information available

**Section 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

**10.3. Possibility of hazardous reactions**

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Strong acids, Strong bases, Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Carbon oxides.

**Section 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.





**Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Information on toxicological effects**

**Symptoms** Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Numerical measures of toxicity**

**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 15,623.00 mg/kg  
 ATEmix (dermal) 33,655.00 mg/kg  
 ATEmix (inhalation-dust/mist) 65.00 mg/L  
 ATEmix (inhalation-vapor) 477.00 mg/L

**Unknown acute toxicity**  
 No information available

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Methyl-2-pyrrolidone	= 3914 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	> 5.1 mg/L ( Rat ) 4 h
Triethylamine	= 460 mg/kg ( Rat )	= 415 mg/kg ( Rabbit ) = 570 µL/kg ( Rabbit )	= 1250 ppm ( Rat ) 4 h
Silica, amorphous, fumed, crystal-free	= 3160 mg/kg ( Rat )	-	-
Bis (1,2,2,6,6-pentamethyl-4-piperidiny) sebacate	= 2615 mg/kg ( Rat )	-	-
Third Party Formulation (TP # 1172167)	= 4 mL/kg ( Rat )	= 650 mg/kg ( Rabbit ) = 2500 µL/kg ( Rabbit )	-

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Irritating to eyes.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.



**Carcinogenicity** No information available.

**Reproductive Toxicity** Classification based on data available for ingredients. Contains a known or suspected reproductive toxin.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	EU - Annex VI Reproductive
1-Methyl-2-pyrrolidone	Repr. 1B
Third Party Formulation (TP # 1172167)	Repr. 2

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### **Ecotoxicity**

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
1-Methyl-2-pyrrolidone	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: = 1400 mg/L (Poecilia reticulata) 96h LC50: = 832 mg/L (Lepomis macrochirus) 96h LC50: = 1072 mg/L (Pimephales promelas) 96h LC50: = 4000 mg/L (Leuciscus idus)	-	48h EC50: = 4897 mg/L
Triethylamine	-	96h LC50: = 43.7 mg/L (Pimephales promelas)	EC50 = 127 mg/L 2 h EC50 = 95 mg/L 17 h	48h EC50: = 200 mg/L
Bis (1,2,2,6,6-pentamethyl-4-piperidiny) sebacate	-	96h LC50: = 0.97 mg/L (Lepomis macrochirus)	-	24h EC50: = 20 mg/L
Third Party Formulation (TP # 1172167)	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: = 7500 mg/L (Lepomis macrochirus) 96h LC50: = 5741 mg/L (Pimephales promelas)	EC50 > 10000 mg/L 17 h	48h EC50: > 500 mg/L

### 12.2. Persistence and degradability

**Persistence and Degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation**

Chemical name	Log Pow
1-Methyl-2-pyrrolidone	-0.46
Triethylamine	1.45
Bis (1,2,2,6,6-pentamethyl-4-piperidiny) sebacate	0.37
Third Party Formulation (TP # 1172167)	-0.682

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment**

Chemical name	PBT and vPvB assessment
1-Methyl-2-pyrrolidone	The substance is not PBT / vPvB
Triethylamine	The substance is not PBT / vPvB
Third Party Formulation (TP # 1172167)	The substance is not PBT / vPvB

**12.6. Other adverse effects**

**Other adverse effects** No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** No information available.

**Other Information** According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORT INFORMATION**

<b>IMDG/IMO</b>	Not regulated
<b>14.1 UN-No.</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	N/A
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine Pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk</b>	No information available



according to Annex II of  
MARPOL and the IBC Code

**RID** Not regulated  
**14.1 UN-No.** Not regulated  
**14.2 Proper Shipping Name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing Group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special Provisions** None

**ADR** Not regulated  
**14.1 UN-No.** Not regulated  
**14.2 Proper Shipping Name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing Group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special Provisions** None

**IATA** Not regulated  
**14.1 UN-No.** Not regulated  
**14.2 Proper Shipping Name** NON REGULATED  
**14.3 Hazard Class** N/A  
**14.4 Packing Group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special Provisions** None

### Section 15: REGULATORY INFORMATION

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

##### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
1-Methyl-2-pyrrolidone 872-50-4	RG 84	-
Triethylamine 121-44-8	RG 49, RG 49bis	-
Silica, amorphous, fumed, crystal-free 112945-52-5	RG 5, RG 14, RG 15, RG 15bis, RG 20bis	-
Third Party Formulation (TP # 1172167)	RG 84	-

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

##### Authorizations and/or restrictions on use:



This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
1-Methyl-2-pyrrolidone - 872-50-4	30.	
Third Party Formulation (TP # 1172167) -	54.	

#### Persistent Organic Pollutants

Not applicable.

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

#### International Inventories

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

No information available.

### Section 16: OTHER INFORMATION

#### Key or legend to abbreviations and acronyms used in the safety data sheet

##### Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H360D - May damage the unborn child  
H361d - Suspected of damaging the unborn child  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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End of Safety Data Sheet