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A J & A J Hubycki & Oz-Gel Imports Pty Ltd T/as OZ-GEL  
ABN: 38 926 088 116



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Dated 13/10/16  
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**45550-45552-45553 – POLISH T98 LONG LIFE**

## Safety data sheet

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

#### 1.1. Product identifier

Code: 45550-45552-45553  
Product name: POLISH T98 LONG LIFE

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

Intended use: Polish compound

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

Name: GELSON SRL  
Full address: Via Varese 11/13  
District and Country: 20020 Lainate (MI) Italia  
Tel. +39 02 9370640  
Fax +39 02 93797341  
e-mail address of the competent person responsible for the Safety Data Sheet: info@gelson.it  
Australian distributor: OZ-GEL.  
236 Maddington Rd  
Maddington 6109 Western Australia  
Australian distributor phone number: 0418 913 426 (general information)  
Local Distributor:

#### 1.4. Emergency telephone number

For urgent inquiries refer to: POISONS INFORMATION CENTRE  
Australia Tel. 13 11 26  
New Zealand Tel. 0800 764 766

### 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:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

#### 2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H226** Flammable liquid and vapour.  
**EUH066** Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P233** Keep container tightly closed.  
**P280** Wear protective gloves / eye protection / face protection.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
**P370+P378** In case of fire: use CO2 or powder to extinguish.

### 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)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS 64742-48-9	10 - 20	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066

EC 919-857-5

INDEX -

Reg. no. 01-2119463258-33

Hydrocarbons, C11-C13, isoalkanes, < 2%

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**aromatics**

CAS 90622-58-5 10 - 30 Asp. Tox. 1 H304, EUH066  
EC 920-901-0  
INDEX -  
Reg. no. 01-2119456810-40

**Kerosine (petroleum), hydrodesulfurized**

CAS 64742-81-0 1 - 5 Flam. Liq. 3 H226, Asp. Tox.  
1 H304, Aquatic Chronic 2  
H411  
EC 265-184-9  
INDEX 649-423-00-8  
Reg. no. 01-2119462828-25

**2-DIETHYLAMINOETHANOL**

CAS 100-37-8 0,5 - 1 Flam. Liq. 3 H226, Acute Tox.  
3 H311, Acute Tox. 3 H331,  
Acute Tox. 4 H302, Skin Corr.  
1B H314, STOT SE 3 H335

EC 202-845-2  
INDEX 603-048-00-6

**MORPHOLINE**

CAS 110-91-8 0,5 - 1 Flam. Liq. 3 H226, Acute Tox.  
3 H311, Acute Tox. 3 H331,  
Acute Tox. 4 H302, Skin Corr.  
1B H314

EC 203-815-1  
INDEX 613-028-00-9  
Reg. no. 01-2119496057-30

**Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha**

CAS 64741-65-7 0 - 0,5 Flam. Liq. 3 H226, Asp. Tox.  
1 H304, Aquatic Chronic 4  
H413, EUH066, Note P

EC 265-067-2  
INDEX 649-275-00-4  
Reg. no. 01-2119472146-39

**N-METHYL-2-PYRROLIDONE**

CAS 872-50-4 0 - 0,5 Repr. 1B H360D, Eye Irrit. 2  
H319, Skin Irrit. 2 H315,  
STOT SE 3 H335

EC 212-828-1  
INDEX 606-021-00-7

**2-BUTOXYETHANOL**

CAS 111-76-2 0 - 0,5 Acute Tox. 4 H302, Acute  
Tox. 4 H312, Acute Tox. 4  
H332, Eye Irrit. 2 H319, Skin  
Irrit. 2 H315

EC 203-905-0  
INDEX 603-014-00-0

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## 45550-45552-45553 – POLISH T98 LONG LIFE

Reg. no. 01-2119475108-36-XXXX

### 2-METHOXYETHANOL

CAS 109-86-4

0 - 0,3

Flam. Liq. 3 H226, Repr. 1B  
H360FD, Acute Tox. 4 H302,  
Acute Tox. 4 H312, Acute  
Tox. 4 H332

EC 203-713-7

INDEX 603-011-00-4

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

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

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

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

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

For symptoms and effects caused by the contained substances, see section 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

## 5.3. Advice for firefighters

### GENERAL INFORMATION

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

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

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

### 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. If the product is flammable, use explosion-proof equipment. 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

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**7.1. Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. 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. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

**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. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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:

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
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2016

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers			
	Acute local	Acute systemic	Chronic local	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND				125 mg/kg
Inhalation			VND			VND	871 mg/m3
Skin			VND			VND	208 MG/KG

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**Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	1200	171		

**Kerosine (petroleum), hydrodesulfurized**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	DEU	200			

**2-DIETHYLAMINOETHANOL**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	24	5	24	5	SKIN
MAK	DEU	24	5	24	5	
VLA	ESP	9,7	2			SKIN
VLEP	FRA	50	10			SKIN
OEL	NLD	9,6				SKIN
TLV-ACGIH		9,6	2			

**MORPHOLINE**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	36	10	72	20	SKIN
MAK	DEU	36	10	72	20	
VLA	ESP	36	10	72	20	
VLEP	FRA	36	10	72	20	
WEL	GBR	36	10	72	20	SKIN
TLV	ITA	36	10	72	20	SKIN
OEL	NLD	36	10	72	20	SKIN
OEL	EU	36	10	72	20	
TLV-ACGIH		71	20			SKIN

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	1,49	mg/kg
Normal value for marine water sediment	0,149	mg/kg
Normal value for water, intermittent release	0,28	mg/l
Normal value of STP microorganisms	10	mg/l

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Normal value for the terrestrial compartment 0,239 mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	38 mg/kg	VND	6,3 mg/kg				
Inhalation	18 mg/m3	VND	3,2 mg/m3	45 mg/m3	72 mg/m3	VND	36 mg/m3	91 mg/m3
Skin			VND	0,52 mg/kg			VND	1,04 mg/kg

**N-METHYL-2-PYRROLIDONE**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	82	20	164	40	SKIN
MAK	DEU	82	20	164	40	SKIN
VLA	ESP	40	10	80	20	SKIN
WEL	GBR	40	10	80	20	SKIN
TLV	ITA	40	10	80	20	SKIN
OEL	NLD	40	10	80	20	SKIN
OEL	EU	40	10	80	20	SKIN

**2-BUTOXYETHANOL**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	49	10	196	40	SKIN
MAK	DEU	49	10	98	20	SKIN
VLA	ESP	98	20	245	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
TLV	ITA	98	20	246	50	SKIN
OEL	NLD	100		246		SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	8,8	mg/l
Normal value in marine water	0,88	mg/l
Normal value for fresh water sediment	34,6	mg/kg
Normal value for marine water sediment	3,46	mg/kg
Normal value for water, intermittent release	9,1	mg/l
Normal value for the food chain (secondary poisoning)	0,00002	mg/kg
Normal value for the terrestrial compartment	3,13	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**



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Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3,2 mg/kg				
Inhalation			VND	49 mg/m3			VND	98 mg/m3
Skin			VND	38 mg/kg			VND	75 mg/kg

**2-METHOXYETHANOL**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	3,2	1	25,6	8	SKIN
MAK	DEU	3,2	1	25,6	8	SKIN
VLA	ESP	3	1			SKIN
VLEP	FRA	3,2	1			SKIN
WEL	GBR	3	1			SKIN
TLV	ITA		0,5			SKIN
OEL	NLD	0,5	0,16			SKIN
OEL	EU		1			SKIN
TLV-ACGIH		0,31	0,1			

Legend:

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

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

**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.

**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 I 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

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### RESPIRATORY PROTECTION

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

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

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

### ENVIRONMENTAL EXPOSURE CONTROLS

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

## SECTION 9. Physical and chemical properties

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

Appearance	pasty liquid
Colour	pink
Odour	di idrocarburo
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	≤ 55 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower flammability limit	Not available
Upper flammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,930 Kg/l
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	> 40 sec @ 23°C (ISO 2431:1993; 6 mm)
Explosive properties	Not available
Oxidising properties	Not available

### 9.2. Other information

VOC (Directive 2010/75/EC) :	36,71 % - 341,36 g/litre
VOC (volatile carbon) :	32,85 % - 305,54 g/litre

## 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.

MORPHOLINE: The product may react exothermically on contact with strong oxidizing agents or reducers, strong acids or bases.

N-METHYL-2-PYRROLIDONE: **decomposes** at temperatures over 300°C/572°F. When exposed to the air it oxidates slowly to develop hydroperoxides. Completely mixable with water with a neutral or slightly basic reaction. It does not attack common materials but does dissolve several kinds of plastic materials.

2-METHOXYETHANOL: decomposes due to the effect of the heat.

#### 10.2. Chemical stability

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

N-METHYL-2-PYRROLIDONE: stable up to 315°C/599°F in **inerte** atmospheres.

2-METHOXYETHANOL: stable in normal conditions of use.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

N-METHYL-2-PYRROLIDONE: may react dangerously with strong oxidants and strong acids.

2-METHOXYETHANOL: forms explosive peroxides on exposure to the air and oxidising agents. Can react dangerously with: strong bases, aluminium and magnesium.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

2-METHOXYETHANOL: avoid exposure to light, sources of heat and naked flames.

#### 10.5. Incompatible materials

N-METHYL-2-PYRROLIDONE: Sulphur and carbon disulphide. Oxidising substances, rubbers, plastics, aluminium and some metals.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

N-METHYL-2-PYRROLIDONE: nitric oxides, carbon oxides.

### SECTION 11. Toxicological information

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### 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 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.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

N-METHYL-2-PYRROLIDONE: no acute or chronic cases of intoxication or sensitization have been reported. On healthy volunteers, repeated skin applications caused modest and transient erythema. The substance enhances the absorption of several substances through the skin. A limit of exposure of 400 mg/cu.m is recommended (Fiche toxicologique, 1987). Experiments conducted on mice and rats by the oral and inhalation way revealed no teratogenic effects, at non embryotoxic doses. It is not mutagenic with Ames test.

2-METHOXYETHANOL: the doctor should take into account the possibility of cutaneous absorptions, since the limit of exposure in 8 hours does not consider damages caused by this way.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LD50 (Oral)> 5000 mg/kg ratto  
LD50 (Dermal)> 5000 mg/kg coniglio  
LC50 (Inhalation)> 4951 mg/m<sup>3</sup> ratto

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics

LD50 (Oral)> 5000 mg/kg ratto  
LD50 (Dermal)> 5000 mg/kg coniglio  
LC50 (Inhalation)> 5000 mg/m<sup>3</sup> ratto

Kerosine (petroleum), hydrodesulfurized

LD50 (Oral)> 5000 mg/kg ratto  
LD50 (Dermal)> 2000 mg/kg coniglio  
LC50 (Inhalation)> 5,28 mg/l ratto

MORPHOLINE

LD50 (Oral)1050 mg/kg Rat  
LD50 (Dermal)500 mg/kg Rabbit  
LC50 (Inhalation)8 ppm/4h Rat

N-METHYL-2-PYRROLIDONE

LD50 (Oral)3914 mg/kg Rat  
LD50 (Dermal)7000 mg/kg Rat  
LC50 (Inhalation)> 5,1 mg/l/4h Rat

2-METHOXYETHANOL

LD50 (Oral)2460 mg/kg Rat  
LD50 (Dermal)2000 mg/kg Rat  
LC50 (Inhalation)> 12,4 mg/l/4h Rat

2-BUTOXYETHANOL

LD50 (Oral)615 mg/kg Rat  
LD50 (Dermal)405 mg/kg Rabbit  
LC50 (Inhalation)2,2 mg/l/4h Rat

## SECTION 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways.

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Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

### 12.1. Toxicity

CHEROSENE (PETROLIO), IDRODESOLFORATO / CHEROSENE NON SPECIFICATO:

EL50 (24h) 1 - 3 mg/l Pseudokirchneriella subcapitata  
EL50 (48h) 1 - 3 mg/l Pseudokirchneriella subcapitata  
EL50 (72h) 1 - 3 mg/l Pseudokirchneriella subcapitata  
EL50 (24h) 4,6 mg/l Daphnia magna  
EL50 (48h) 1,4 mg/l Daphnia magna  
LC50 (72h) 2 - 5 mg/l Pesce (Oncorhynchus mykiss)  
LC50 (24h) 2 - 5 mg/l Pesce (Oncorhynchus mykiss).

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,  
< 2% aromatics

LC50 - for Fish > 1000 mg/l/96h Pesce  
EC50 - for Crustacea 1000 mg/l/48h Daphnia Magna  
EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Alga

Hydrocarbons, C11-C13,  
isoalkanes, < 2% aromatics

LC50 - for Fish 1000 mg/l/96h Fish  
EC50 - for Crustacea 1000 mg/l/48h Crustacea  
EC50 - for Algae / Aquatic Plants 1000 mg/l/72h Algae  
Chronic NOEC for Crustacea 1 mg/l

### MORPHOLINE

LC50 - for Fish 179 mg/l/96h Pesce  
EC50 - for Crustacea 45 mg/l/48h  
EC50 - for Algae / Aquatic Plants > 28 mg/l/72h

### 2-BUTOXYETHANOL

LC50 - for Fish 1490 mg/l/96h Lepomis macrochirus  
EC50 - for Crustacea 1001 mg/l/48h Daphnia magna

### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,  
< 2% aromatics  
Rapidly degradable

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Hydrocarbons, C11-C13,  
isoalkanes, < 2% aromatics  
Rapidly degradable

**MORPHOLINE**

Solubility in water 10000 mg/l

Rapidly degradable

**N-METHYL-2-PYRROLIDONE**

Solubility in water mg/l 1000 - 10000

Rapidly degradable

**2-METHOXYETHANOL**

Solubility in water 1000000 mg/l

Rapidly degradable

**2-BUTOXYETHANOL**

Solubility in water mg/l 1000 - 10000

Rapidly degradable

90%

**2-DIETHYLAMINOETHANOL**

Solubility in water mg/l 1000 - 10000

Rapidly degradable

**12.3. Bioaccumulative potential**

**MORPHOLINE**

Partition coefficient: n-octanol/water -2,55  
BCF < 0,65

**N-METHYL-2-PYRROLIDONE**  
Partition coefficient: n-octanol/water -0,46

**2-METHOXYETHANOL**

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Partition coefficient: n-octanol/water -0,77

### 2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81  
BCF 2,5

### 2-DIETHYLAMINOETHANOL

Partition coefficient: n-octanol/water 0,21  
BCF < 6,1

## 12.4. Mobility in soil

### MORPHOLINE

Partition coefficient: soil/water -0,6196

N-METHYL-2-PYRROLIDONE  
Partition coefficient: soil/water 1,32

### 2-DIETHYLAMINOETHANOL

Partition coefficient: soil/water 0,777

## 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

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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, 1263

IATA:

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

The product, if packaged in packages of less than 30 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

### 14.2. UN proper shipping name

ADR / RID: PAINT RELATED  
MATERIAL  
IMDG: PAINT RELATED  
MATERIAL  
IATA: PAINT RELATED  
MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, III

IATA:

### 14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (D/E)

Special Provision: -

IMDG: EMS: F-E, S-E

Limited



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IATA:	Cargo:	Quantities: 5 L Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72	

#### 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 6

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

Product  
Point 3 - 40

Contained substance  
Point 30 N-METHYL-2-PYRROLIDONE

Substances in Candidate List (Art. 59 REACH)

N-METHYL-2-PYRROLIDONE

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

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None

### Healthcare controls

Information not available

Product not intended for uses provided for by Dir. 2004/42/CE.

### 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:

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Repr. 1B</b>	Reproductive toxicity, category 1B
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 4</b>	Hazardous to the aquatic environment, chronic toxicity, category 4
<b>H226</b>	Flammable liquid and vapour.
<b>H360D</b>	May damage the unborn child.
<b>H360FD</b>	May damage fertility. May damage the unborn child.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

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**H413** May cause long lasting harmful effects to aquatic life.  
**EUH066** Repeated exposure may cause skin dryness or cracking.

### 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 labelling 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
  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
- 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.

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Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:  
The following sections were modified:  
03 / 08 / 09 / 12.