

# 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



Revision date 08-Dec-2022

Revision Number 1

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

### 1.1. Product identifier

**Product Name** OXYGAL  
**Product Code(s)** TP.1002.H.1\_\_\_ISR  
**Chemical name** Oxyfluorfen 240 EC  
**Pure substance/mixture** Mixture

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

**Recommended use** Herbicide; For professional users only  
**Uses advised against** No information available

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

#### Manufacturer

Tapazol Chemical Works Ltd.  
1st HaSolela st.  
West. Ind. Zone  
Beit Shemesh, Israel 9905415  
Tel: +972-2-992-6040  
Fax: +972-2-9926050  
For further information, please contact [sds@tapazol.co.il](mailto:sds@tapazol.co.il)

### 1.4. Emergency telephone number

**Emergency Telephone** +972 4 777 1900  
National Institute for Information on Poisoning  
Rambam Health Care Campus, Haifa, Israel

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Aspiration hazard</b>	Category 1 - (H304)
<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Reproductive toxicity</b>	Category 1B - (H360D)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335,H336)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Chronic aquatic toxicity</b>	Category 1 - (H410)

### 2.2. Label elements

Contains Hydrocarbons, C10, aromatics, >1% naphthalene, 1-Methylpyrrolidin-2-one, 4-Nonylphenol, branched, ethoxylated, Benzenesulfonic acid, C10-13-alkyl calcium salt

**Signal word**

Danger

**Hazard statements**

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H360D - May damage the unborn child

H410 - Very toxic to aquatic life with long lasting effects

EUH066 - Repeated exposure may cause skin dryness or cracking

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

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

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P273 - Avoid release to the environment

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of water/...

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

P331 - Do NOT induce vomiting

P391 - Collect spillage

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

**Additional information**

This product requires tactile warnings if supplied to the general public.

This product requires child resistant fastenings if supplied to the general public. This product requires child resistant fastenings when supplied to the general public unless the product is placed on the market in the form of aerosols or in a container with a sealed spray attachment.

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**2.3. Other hazards****Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
4-Nonylphenol, branched, ethoxylated	Group III Chemical	-
Naphthalene	Group III Chemical	-

**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]
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Oxyfluorfen	255-983-0	42874-03-3	22-26	Aquatic Acute 1 (H400) M=100 Aquatic Acute 1 (H410) M=100
1-Methylpyrrolidin-2-one	212-828-1	872-50-4	17-22	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 1B (H360D) STOT SE 3 (H335)
4-Nonylphenol, branched, ethoxylated	---	127087-87-0	9-12	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
Benzenesulfonic acid, C10-13-alkyl calcium salt	-	932-231-6	1-3	Skin irrit. 2 (H315) Eye dam.1 (H318) Aquatic Chronic 3 (H412)
Solvent Naphtha (Petroleum), Heavy Aromatic	265-198-5	64742-94-5	45-51	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
Naphthalene	202-049-5	91-20-3	< 0.05	Acute Tox.4 (H302) Carc.2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

**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-Methylpyrrolidin-2-one	872-50-4	X
4-Nonylphenol, branched, ethoxylated	127087-87-0	X

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.
<b>Eye contact</b>	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid breathing vapors or mists. See section 8 for more information.

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

**Symptoms** Burning sensation. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. 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** Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Small Fire** Dry chemical, CO2, water spray or regular foam.  
**Large Fire** Water spray, fog or regular foam  
Dike fire-control water for later disposal  
Move containers from fire area if you can do it without risk

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

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

#### **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** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapors or mists.

**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** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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

**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. Store locked up. Store away from other materials.

**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	European Union	Austria	Belgium	Netherlands	Bulgaria
1-Methylpyrrolidin-2-one 872-50-4	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> 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> H* Skin sensitizer	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> *	TWA: 40 mg/m <sup>3</sup> STEL: 80 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> K*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> H*	TWA: 10 ppm TWA: 53 mg/m <sup>3</sup> STEL: 15 ppm STEL: 80 mg/m <sup>3</sup> *	TWA: 50 mg/m <sup>3</sup> STEL: 80 mg/m <sup>3</sup> H*	STEL: 75.0 mg/m <sup>3</sup> TWA: 50.0 mg/m <sup>3</sup>
Chemical name	Denmark	Germany	France	United Kingdom	Spain
1-Methylpyrrolidin-2-one 872-50-4	TWA: 5 ppm TWA: 20 mg/m <sup>3</sup> H*	TWA: 20 ppm TWA: 82 mg/m <sup>3</sup> H*	TWA: 40 mg/m <sup>3</sup> TWA: 10 ppm STEL: 80 mg/m <sup>3</sup> STEL: 20 ppm *	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> STEL: 20 ppm STEL: 80 mg/m <sup>3</sup> vía dérmica*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	TWA: 0.4 ppm TWA: 2 mg/m <sup>3</sup> H*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	-	TWA: 10 ppm TWA: 53 mg/m <sup>3</sup> STEL: 15 ppm STEL: 80 mg/m <sup>3</sup> vía dérmica*

**Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
1-Methylpyrrolidin-2-one 872-50-4	-	-	-	20 mg/g Creatinine - urine (2-Hydroxy-N-methylsuccinimide) - about 16 hours after completion of the work shift 70 mg/g Creatinine - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - 2-4 times after the work shift/break	-
Chemical name	Denmark	Finland	France	Germany	Germany MAK
1-Methylpyrrolidin-2-one 872-50-4	-	-	-	150 mg/L (urine - 5-Hydroxy-N-methyl-2-pyrrolidone end of shift) 150 mg/L - BAT (end of exposure or end of shift) urine	150 mg/L (urine - 5-Hydroxy-N-methyl-2-pyrrolidone end of shift)
Naphthalene 91-20-3	-	-	-	35 µg/L - BAR (end of exposure or end of shift) urine 35 µg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine	-
Chemical name	Hungary	Ireland	Italy	Italy REL	
1-Methylpyrrolidin-2-one 872-50-4	-	20 mg/g Creatinine (urine - 2-Hydroxy-N-Methylsuccinimide morning after shift (8 hours)) 70 mg/g Creatinine (urine - 5-Hydroxy-N-methyl-2-pyrrolidone 2-4 hours after the end of the shift)	-	100 mg/L - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - end of shift	
Naphthalene 91-20-3	-	4 µmol/mol Creatinine (urine - 1-Hydroxypyrene post shift)	-	- () - end of shift	
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
Oxyfluorfen 42874-03-3	-	-	5 mg/g Creatinine - urine (Fluorine) - end of shift	-	
Naphthalene 91-20-3	-	-	-	5.66 µg/L - urine (1-Hydroxypyrene) - end of exposure or work shift	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
1-Methylpyrrolidin-2-one 872-50-4	150 mg/L - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - at the end of the work shift	20 mg/g Creatinine (urine - 2-Hydroxy-N-methylsuccinimide pre-shift) 70 mg/g Creatinine (urine - 5-Hydroxy-N-methyl-2-pyrrolidone between 2-4 hours after the final exposure)	-	-	

**8.2. Exposure controls****Personal protective equipment**

<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Hand protection</b>	Wear suitable gloves. Impervious gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Color</b>	amber
<b>Odor</b>	sweet.

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>	7.2 - 7.5	
<b>pH (as aqueous solution)</b>		
<b>Melting point / freezing point</b>		
<b>Boiling point / boiling range</b>	201.7 °C	
<b>Flash point</b>	102 °C	
<b>Evaporation rate</b>	No data available.	
<b>Flammability (solid, gas)</b>	No data available.	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available.	
<b>Lower flammability or explosive limits</b>	No data available.	
<b>Vapor pressure</b>	No data available.	
<b>Vapor density</b>	No data available.	
<b>Relative density</b>	1.05 - 1.1	
<b>Water solubility</b>	Forms an emulsion	
<b>Solubility(ies)</b>	No data available.	
<b>Partition coefficient</b>	No data available.	
<b>Autoignition temperature</b>	No data available.	
<b>Decomposition temperature</b>		
<b>Kinematic viscosity</b>	11 - 12 mm <sup>2</sup> /s	
<b>Dynamic viscosity</b>	No data available.	

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

**10.2. Chemical stability**

**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.

**10.4. Conditions to avoid**

**Conditions to avoid** Excessive heat.

**10.5. Incompatible materials**

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

**Oral LD50** > 2500 mg/kg. Based on available data, the classification criteria are not met.

**Dermal LD50** > 4000 mg/kg. Based on available data, the classification criteria are not met.

**Inhalation LC50** Not classified. Based on calculation method, the classification criteria are not met.

**Skin corrosion/irritation** H315 - Causes skin irritation Classification based on test data.

**Serious eye damage/eye irritation** H318 - Causes serious eye damage. Classification based on test data.

**Respiratory or skin sensitization** Not a skin sensitizer. Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Not classified. (Based on calculation method classification criteria are not met).

Chemical name	European Union
Oxyfluorfen	Not classified
1-Methylpyrrolidin-2-one	Not classified
Naphthalene	Not classified

**Carcinogenicity** Not classified. (Based on calculation method classification criteria are not met).

Chemical name	European Union
Oxyfluorfen	Not classified
1-Methylpyrrolidin-2-one	Not classified
Naphthalene	Carc. 2 (H351)

**Reproductive toxicity** H360D - May damage the unborn child. Classification based on calculation method.

Chemical name	European Union
Oxyfluorfen	Not classified
1-Methylpyrrolidin-2-one	Repr. 1B (H360D)
Naphthalene	Not classified



<b>STOT - single exposure</b>	H336 - May cause drowsiness or dizziness. Classification based on calculation method. H335 - May cause respiratory irritation. Classification based on calculation method.
<b>STOT - repeated exposure</b>	Not classified. (Based on calculation method classification criteria are not met).
<b>Aspiration hazard</b>	H304 - May be fatal if swallowed and enters airways. Classification based on test data.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Ecotoxicity</b>	H400 - Very toxic to aquatic life. Classification based on calculation method. H410 - Very toxic to aquatic life with long lasting effects. Classification based on calculation method.  Non-toxic to honeybees.
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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Oxyfluorfen	Acute toxicity: LC50 = 0.000172 mg/l Chronic toxicity: NOEC = 0.00195 mg/l	Acute toxicity: LC50 = 0.21 mg/l Chronic toxicity: NOEC = 0.038 mg/l	-	Acute toxicity: LC50 = 0.072 mg/l Chronic toxicity: NOEC = 0.013 mg/l

### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	Oxyfluorfen exhibited medium to very high persistence. Oxyfluorfen is not readily biodegradable.
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### 12.3. Bioaccumulative potential

<b>Bioaccumulation</b>	Oxyfluorfen shows low potential for bioaccumulation.
<b>Bioconcentration factor (BCF)</b>	Oxyfluorfen: 184 (DT50 of 6.3 hours).

#### Component Information

Chemical name	Partition coefficient
Oxyfluorfen	Log Pow = 4.86 at 18C in unbuffered water and 99.2% purity

### 12.4. Mobility in soil

<b>Mobility in soil</b>	Oxyfluorfen: DT50 is 172d.
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### 12.5. Results of PBT and vPvB assessment

<b>PBT and vPvB assessment</b>	The components in formulation do not meet the criteria for classification as PBT or vPvB.
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Chemical name	PBT and vPvB assessment
Oxyfluorfen	The substance is not PBT / vPvB
1-Methylpyrrolidin-2-one	The substance is not PBT / vPvB
4-Nonylphenol, branched, ethoxylated	The substance is not PBT / vPvB
Benzenesulfonic acid, C10-13-alkyl calcium salt	The substance is not PBT / vPvB
Solvent Naphtha (Petroleum), Heavy Aromatic	The substance is not PBT / vPvB
Naphthalene	The substance is not PBT / vPvB

### 12.6. Other adverse effects

#### Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors	EU - Endocrine Disruptors -
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	Candidate List	Evaluated Substances
4-Nonylphenol, branched, ethoxylated	Group III Chemical	-
Naphthalene	Group III Chemical	-

## 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	Do not reuse empty containers.

## SECTION 14: Transport information

### IMDG

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Oxyfluorfen], [Hydrocarbons, C10, aromatics, >1% naphthalene]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	

### RID

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Oxyfluorfen], [Hydrocarbons, C10, aromatics, >1% naphthalene]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

### ADR

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Oxyfluorfen], [Hydrocarbons, C10, aromatics, >1% naphthalene]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

### IATA

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Oxyfluorfen], [Hydrocarbons, C10, aromatics, >1% naphthalene]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
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-Methylpyrrolidin-2-one 872-50-4	RG 84	-
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	RG 84	-

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**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 authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

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-Methylpyrrolidin-2-one - 872-50-4	72. 30. 71.	
4-Nonylphenol, branched, ethoxylated - 127087-87-0		X

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
4-Nonylphenol, branched, ethoxylated - 127087-87-0	I.1 I.2

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDL</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/NDL** - 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**

## **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 section 3**

H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer  
H360D - May damage 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  
H412 - Harmful to aquatic life with long lasting effects

#### **Legend**

SVHC: Substances of Very High Concern for Authorization:

#### **Legend Section 8: Exposure controls/personal protection**

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

#### **Classification procedure**

H304 - Classification based on test data  
H315 - Classification based on test data  
H318 - Classification based on test data  
H335 - Classification based on calculation method  
H336 - Classification based on calculation method  
H360D - Classification based on calculation method  
H400 - Classification based on calculation method  
H410 - Classification based on calculation method

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision date**

08-Dec-2022

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**