

# SAFETY DATA SHEET

according to the Hazardous Products Regulations

## All-Solve

Version  
1.0

Revision Date:  
11.10.2024

SDS Number:  
70MDGM661355

Date of first issue:  
11.10.2024

### SECTION 1. IDENTIFICATION

Product name : All-Solve

Product number : 661355

Other means of identification : No data available

#### Manufacturer or supplier's details

Company : Pinnacle West Enterprises Inc. 31897 Mercantile Way  
Abbotsford, BC, V2T 4C3, Exporter EIN No. 47-5632014  
pinnaclewest.net Telephone: 800 901 0088

Emergency telephone : 1-800-424-9300 CHEMTREC (USA) 1-703-741-5970  
CHEMTREC (International) 24 Hours/day; 7 Days/week

#### Recommended use of the chemical and restrictions on use

Recommended use : Polyurethane remover

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

Hazard pictograms :



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Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H360 May damage fertility or the unborn child.  
H401 Toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Methyl-2-pyrrolidinone, 1-	N-Methylpyrrolidinone	872-50-4	$\geq 30 - < 60$ *
GAMMA-BUTYROLACTONE	Not Assigned	96-48-0	$\geq 10 - < 30$ *
Ethylene glycol phenyl ether	Not Assigned	122-99-6	$\geq 10 - < 30$ *
Propanoic acid, 3-ethoxy-, ethyl ester	Not Assigned	763-69-9	$\geq 5 - < 10$ *
Nonylphenol, branched, ethoxylated	Not Assigned	68412-54-4	$\geq 1 - < 5$ *

\* Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- If inhaled : fresh air. Call in physician.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
Consult a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment immediately.  
Remove contact lenses.
- If swallowed : immediately make victim drink water (two glasses at most).  
Consult a physician.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Irritation and corrosion  
somnolence  
Drowsiness  
Cough

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Shortness of breath  
Risk of serious damage to eyes.  
Risk of blindness!

Notes to physician : Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards during fire fighting : Combustible.

Vapors are heavier than air and may spread along floors.  
Forms explosive mixtures with air on intense heating.  
Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Suppress (knock down) gases/vapors/mists with a water spray jet.

Special protective equipment for fire-fighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:  
Do not breathe vapors, aerosols.  
Avoid substance contact.  
Ensure adequate ventilation.

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Keep away from heat and sources of ignition.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.  
If possible, stop flow of product.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Emergency showers and eye wash stations should be readily accessible. Empty containers may contain residue which can be dangerous – do not pressurize, cut, weld, drill, grind and also do not expose such containers to heat, flame, sparks, or other ignition sources. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Observe label precautions.

Conditions for safe storage : Store in original container. Keep away from direct sunlight.

Further information on storage conditions : Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Tightly closed. Risks from decomposition products: see section 10

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl-2-pyrrolidinone, 1-	872-50-4	TWA	400 mg/m <sup>3</sup>	CA ON OEL
Ethylene glycol phenyl ether	122-99-6	TWA	25 ppm 141 mg/m <sup>3</sup>	CA ON OEL
Propanoic acid, 3-ethoxy-, ethyl ester	763-69-9	TWA	50 ppm 300 mg/m <sup>3</sup>	CA ON OEL

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### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methyl-2-pyrrolidinone, 1-	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

**Engineering measures** : Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7

### Personal protective equipment

**Respiratory protection** : Respirator with filter for organic vapor  
Wear appropriate respirator when ventilation is inadequate. required when vapours/aerosols are generated.

**Hand protection**

**Remarks** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Protective measures** : Wear suitable protective clothing, gloves and eye/face protection.

**Eye protection** : Tightly fitting safety goggles

**Body Protection** : Rubber or plastic boots  
Flame retardant protective clothing  
If there is any possibility of direct contact or exposure, wear chemical resistant protective clothing.

**Hygiene measures** : Avoid contact with skin, eyes and clothing.  
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid

**Color** : Colorless - Light yellow.

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Odor : amine-like

Odor Threshold : No data available

pH : No data available

Melting point/range :

Boiling point/boiling range : 210 °C

Flammability (solid, gas) : Remarks: Combustible.

Decomposition temperature : No data available

Flash point : 89 °C

Auto-ignition temperature : Information on components: Methyl-2-pyrrolidinone, 1-245 °C (1.013 hPa)  
Method: DIN 51794

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : 0,45 hPa

Relative vapor density : No data available

Relative density : (water = 1) 1,065

Density : 1,065 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : completely soluble

Partition coefficient: n-octanol/water : No data available

Evaporation rate : No data available

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Viscosity : No data available

Explosive properties : Not classified as explosive.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability : The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions : no information available

Conditions to avoid : Strong heating.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : in the event of fire: See section 5.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute Toxicity Estimate (ATE): > 2.000 mg/kg  
Method: Calculation method

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity : Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity : Acute Toxicity Estimate (ATE): > 2.000 mg/kg

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Method: Calculation method

Symptoms: Skin irritation

### Components:

#### Methyl-2-pyrrolidinone, 1-:

Acute oral toxicity : LD50 (Rat, male and female): 4.150 mg/kg  
Method: OECD Test Guideline 401  
Remarks: (ECHA)

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,1 mg/l  
Exposure time: 4 h  
Test atmosphere: aerosol  
Method: OECD Test Guideline 403  
GLP: yes  
Remarks: (ECHA)

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: (ECHA)

Assessment: The substance or mixture has no acute dermal toxicity

#### GAMMA-BUTYROLACTONE:

Acute oral toxicity : LD50 (Rat, male and female): 1.582 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,1 mg/l  
Exposure time: 4 h  
Test atmosphere: aerosol  
Method: OECD Test Guideline 403  
GLP: yes

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Guinea pig): 5.600 mg/kg

#### Ethylene glycol phenyl ether:

Acute oral toxicity : LD50 (Rat, female): 1.840 mg/kg  
Method: OECD Test Guideline 401  
Remarks: (ECHA)

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,14 mg/l  
Exposure time: 4 h  
Test atmosphere: aerosol  
Method: OECD Test Guideline 412

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GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Remarks: (External SDS)

Assessment: The substance or mixture has no acute dermal toxicity

### Propanoic acid, 3-ethoxy-, ethyl ester:

Acute oral toxicity : LD50 (Rat): 4.300 - 5.000 mg/kg

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

Acute dermal toxicity : LD50 (Guinea pig): > 19.000 mg/kg

### Nonylphenol, branched, ethoxylated:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg  
GLP: yes  
Remarks: (ECHA)

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

## Skin corrosion/irritation

### Product:

No data available

### Components:

#### Methyl-2-pyrrolidinone, 1-:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes  
Remarks : (ECHA)

#### GAMMA-BUTYROLACTONE:

Species : Rabbit  
Result : No skin irritation  
Remarks : (ECHA)

#### Ethylene glycol phenyl ether:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No irritation  
Remarks : (ECHA)

#### Propanoic acid, 3-ethoxy-, ethyl ester:

Species : Guinea pig

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Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : (ECHA)

### **Nonylphenol, branched, ethoxylated:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Remarks : (ECHA)

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks : Risk of blindness!

#### **Components:**

##### **Methyl-2-pyrrolidinone, 1-:**

Species : Rabbit  
Result : irritating  
Method : OECD Test Guideline 405  
Remarks : (ECHA)

##### **GAMMA-BUTYROLACTONE:**

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405  
GLP : yes

##### **Ethylene glycol phenyl ether:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405  
Remarks : (ECHA)

##### **Propanoic acid, 3-ethoxy-, ethyl ester:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : (ECHA)

##### **Nonylphenol, branched, ethoxylated:**

Species : Rabbit  
Result : No eye irritation  
Exposure time : 24 h

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Method : OECD Test Guideline 405  
GLP : yes  
Remarks : (ECHA)

### Respiratory or skin sensitization

#### **Product:**

No data available

#### **Components:**

##### **Methyl-2-pyrrolidinone, 1-:**

Routes of exposure : Skin  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.  
Remarks : (ECHA)

Test Type : Patch test:  
Routes of exposure : Skin  
Species : Human  
Result : negative  
Remarks : (IUCLID)

##### **GAMMA-BUTYROLACTONE:**

Test Type : Local lymph node assay (LLNA)  
Routes of exposure : dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.  
GLP : yes

##### **Ethylene glycol phenyl ether:**

Test Type : Patch test:  
Species : Human  
Result : negative  
Remarks : (IUCLID)

Test Type : Sensitisation test:  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

##### **Propanoic acid, 3-ethoxy-, ethyl ester:**

Test Type : Freund's complete adjuvant test  
Routes of exposure : Intradermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative  
Remarks : (ECHA)

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### **Nonylphenol, branched, ethoxylated:**

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitization on laboratory animals.  
Remarks : (ECHA)

### **Germ cell mutagenicity**

#### **Product:**

No data available

#### **Components:**

#### **Methyl-2-pyrrolidinone, 1-:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: (ECHA)

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: (ECHA)

Test Type: unscheduled DNA synthesis assay  
Test system: mammalian cells  
Method: OECD Test Guideline 482  
Result: negative  
GLP: yes  
Remarks: (ECHA)

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
Remarks: (ECHA)

Test Type: Chromosome aberration test  
Species: Chinese hamster (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 475  
Result: negative

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GLP: yes  
Remarks: (ECHA)

### **GAMMA-BUTYROLACTONE:**

Genotoxicity in vitro : Test Type: sister chromatid exchange assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 479  
Result: Positive results were obtained in some in vitro tests.

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Genotoxicity in vivo  
Application Route: Oral  
Method: OECD Test Guideline 477  
Result: negative  
GLP: yes

Test Type: In vivo micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Result: negative  
Remarks: (ECHA)

### **Ethylene glycol phenyl ether:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Cell type: Liver cells  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative  
GLP: yes

### **Propanoic acid, 3-ethoxy-, ethyl ester:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
GLP: yes  
Remarks: (ECHA)

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### **Nonylphenol, branched, ethoxylated:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

### **Carcinogenicity**

#### **Product:**

No data available

### **Reproductive toxicity**

#### **Product:**

No data available

#### **Components:**

#### **Methyl-2-pyrrolidinone, 1-:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

### **STOT-single exposure**

#### **Product:**

No data available

#### **Components:**

#### **Methyl-2-pyrrolidinone, 1-:**

Target Organs : Respiratory system  
Assessment : May cause respiratory irritation.

#### **GAMMA-BUTYROLACTONE:**

Assessment : May cause drowsiness or dizziness.

### **STOT-repeated exposure**

#### **Product:**

No data available

#### **Components:**

#### **GAMMA-BUTYROLACTONE:**

Species : Rat, male  
NOAEL : 225 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : N11.00019274  
GLP : yes

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### Aspiration toxicity

**Product:**

No data available

### Further information

**Product:**

Remarks

: Other dangerous properties can not be excluded.  
This substance should be handled with particular care.  
The product has not been tested. The information is derived  
from the properties of the individual components.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Methyl-2-pyrrolidinone, 1-:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Remarks: (ECHA)
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 24 h  
Remarks: (ECHA)
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Exposure time: 72 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 12,5 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): > 600 mg/l  
Exposure time: 0,5 h  
Method: ISO 8192

##### **GAMMA-BUTYROLACTONE:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 56 mg/l  
Exposure time: 96 h  
GLP: yes
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 500 mg/l



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aquatic invertebrates                      Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
Remarks: (ECHA)

Toxicity to algae/aquatic plants                      : EC10: 50,8 mg/l  
Exposure time: 72 h

Toxicity to microorganisms                      : IC50 (microorganisms): 4.518 mg/l  
Exposure time: 40 h  
Remarks: (ECHA)

### Ethylene glycol phenyl ether:

Toxicity to fish                      : LC50 (Leuciscus idus (Golden orfe)): 220 - 460 mg/l  
Exposure time: 96 h  
Remarks: (IUCLID)

Toxicity to daphnia and other aquatic invertebrates                      : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h  
Remarks: (IUCLID)

Toxicity to algae/aquatic plants                      : IC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Exposure time: 72 h  
Remarks: (IUCLID)

Toxicity to microorganisms                      : EC50 (Pseudomonas putida): 880 mg/l  
Exposure time: 17 h  
Remarks: (IUCLID)

EC10 (activated sludge): 320 mg/l  
Exposure time: 17 h  
Method: OECD Test Guideline 209

### Propanoic acid, 3-ethoxy-, ethyl ester:

Toxicity to fish                      : LC50 (Pimephales promelas (fathead minnow)): 50 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates                      : EC50 (Daphnia magna (Water flea)): > 480 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants                      : EC50 (Scenedesmus capricornutum (fresh water algae)): > 115 mg/l  
Exposure time: 72 h

### Nonylphenol, branched, ethoxylated:

Toxicity to fish                      : LC50 (Pimephales promelas (fathead minnow)): 0,218 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: US-EPA  
Remarks: (ECHA)

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- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 0,148 mg/l  
Exposure time: 48 h  
Remarks: (ECHA)
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 1,5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: (ECHA)
- EC50 (Pseudokirchneriella subcapitata (green algae)): > 3 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: (ECHA)
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0,006 mg/l  
Exposure time: 91 d  
Remarks: (in analogy to similar compounds) (ECHA)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: ca. 7,7 µg/l  
Exposure time: 28 d  
Test Type: flow-through test  
Method: US-EPA  
GLP: yes  
Remarks: (ECHA)
- M-Factor (Chronic aquatic toxicity) : 10
- Toxicity to microorganisms : EC20: > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: (ECHA)

### Persistence and degradability

#### Components:

##### **Methyl-2-pyrrolidinone, 1-:**

- Biodegradability : Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 73 %  
Exposure time: 28 d

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Biochemical Oxygen Demand (BOD) : 1.100 mg/g  
Incubation time: 5 d  
Remarks: (Lit.)

Chemical Oxygen Demand (COD) : 1.600 mg/g  
Remarks: (Lit.)

BOD/ThOD : 99 %  
Remarks: (IUCLID)

### **GAMMA-BUTYROLACTONE:**

Biodegradability : Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 95 %  
Exposure time: 14 d

Biochemical Oxygen Demand (BOD) : 1.160 mg/g  
Incubation time: 5 d  
Remarks: (External SDS)

### **Ethylene glycol phenyl ether:**

Biodegradability : Result: Easily eliminable.  
Biodegradation: 82 %  
Exposure time: 17 d  
Method: OECD Test Guideline 302B  
  
Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 15 d  
Method: OECD Test Guideline 301A

Chemical Oxygen Demand (COD) : 2,127 mg/g  
Remarks: (IUCLID)

### **Propanoic acid, 3-ethoxy-, ethyl ester:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes  
Remarks: (ECHA)

### **Nonylphenol, branched, ethoxylated:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: (ECHA)

### **Bioaccumulative potential**

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### Components:

#### **Methyl-2-pyrrolidinone, 1-:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0,46 (25 °C)  
Method: OECD Test Guideline 107  
Remarks: Bioaccumulation is not expected.

#### **GAMMA-BUTYROLACTONE:**

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

Partition coefficient: n-octanol/water : log Pow: -0,566 (25 °C)  
pH: 6 - 8  
Method: OECD Test Guideline 107  
Remarks: Bioaccumulation is not expected.

#### **Ethylene glycol phenyl ether:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (23 °C)  
pH: 7  
Method: OECD Test Guideline 107  
Remarks: Bioaccumulation is not expected.

#### **Propanoic acid, 3-ethoxy-, ethyl ester:**

Partition coefficient: n-octanol/water : log Pow: 1,35

### **Mobility in soil**

No data available

### **Other adverse effects**

### Product:

Additional ecological information : Discharge into the environment must be avoided.  
No ecological testing was carried out on the preparation.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging : When discarding an empty container, the contaminated to the inside is removed completely and it discards according to your

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local regulations.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Nonylphenol, branched, ethoxylated)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

#### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Nonylphenol, branched, ethoxylated)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

#### TDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Nonylphenol, branched, ethoxylated)  
Class : 9  
Packing group : III  
Labels : 9  
ERG Code : 171  
Marine pollutant : yes

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### SECTION 15. REGULATORY INFORMATION

**NPRI Components** : Methyl-2-pyrrolidinone, 1-Nonylphenol, branched, ethoxylated

#### International Regulations

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

#### Canadian lists

No substances are subject to a Significant New Activity Notification.

#### The ingredients of this product are reported in the following inventories:

TSCA : All substance listed on the TSCA Active Inventory

DSL : All components of this product are on the Canadian DSL

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### SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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