

**SAFETY DATA SHEET****Bio Protect 2**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

**Date issued** 20.01.2022

**1.1. Product identifier**

**Product name** Bio Protect 2

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

**Use of the substance / preparation** Biocide.

**1.3. Details of the supplier of the safety data sheet****Supplier**

**Company name** Maritim Consultants AS

**Postal address** P.O.Box 83

**Postcode** NO-5346

**City** Aagotnes

**Country** Norway

**Telephone number** +47 56311760

**Email** [post@maritim.as](mailto:post@maritim.as)

**Website** [www.dieseldyr.no](http://www.dieseldyr.no)

**1.4. Emergency telephone number**

**Emergency telephone** Telephone number: 111 (NHS)  
Description: For poisoning emergencies (UK)

Telephone number: +47 22 59 13 00  
Description: Norwegian Poison Information Center

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<b>Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]</b>	Flam. Liq. 3; H226
	Acute Tox. 4; H302
	Acute Tox. 4; H332
	Skin Corr. 1B; H314
	Eye Dam. 1; H318
	Resp. Sens. 1; H334
	Skin Sens. 1A; H317
	STOT SE 3; H336
	Aquatic Chronic 3; H412
	<b>Substance / mixture hazardous properties</b>

### 2.2. Label elements

#### Hazard pictograms (CLP)



<b>Composition on the label</b>	Propan-2-ol, 1,5-Pentanedial
<b>Signal word</b>	Danger
<b>Hazard statements</b>	H226 Flammable liquid and vapour. H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P280 Wear protective gloves / protective clothing / eye protection / face protection. P271 Use only outdoors or in a well-ventilated area. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310

Immediately call a POISON CENTER or doctor / physician.  
P501 Dispose of contents / container to an approved waste disposal plant.

**Supplemental label information** EUH 071 Corrosive to the respiratory tract.

**Tactile warnings** Yes

**Child-protection** Yes

## 2.3. Other hazards

**PBT / vPvB** The chemical contains no PBT or vPvB substances.

**Other hazards** The chemical does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH Reg. No.: 01-2119457558-25	Flam. Liq. 2; H225; Eye Irrit. 2; H319; STOT SE 3; H336;	60 %	
1,5-Pentanedial	CAS No.: 111-30-8 EC No.: 203-856-5 Index No.: 605-022-00-X	Acute Tox. 2; H330 Acute Tox. 3; H301 STOT SE 3; H335; SCL STOT SE 3; H335 0,5 % ≤ C < 5 % Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1A; H317 Aquatic Acute 1; H400; M-factor 1 Aquatic Chronic 2; H411; M-factor 1 EUH 071	20 %	
Bronopol (INN)	CAS No.: 52-51-7 EC No.: 200-143-0 Index No.: 603-085-00-8	Acute tox. 4; H312; Acute tox. 4; H302; STOT SE 3; H335; Skin Irrit. 2; H315; Eye Dam. 1; H318; Aquatic Acute 1; H400; M-factor 10;	0,1 %	
<b>Remarks, substance</b>	CAS No 111-30-8 has specific concentration limits: STOT SE 3; H335 0,5 % ≤ C < 5 %			
<b>Substance comments</b>	See section 16 for explanation of hazard statements (H) listed above.			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General</b>	Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties oxygen may be necessary. Call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	Rinse skin with water/shower. Chemical burns must be treated by a physician.
<b>Eye contact</b>	Important! Immediately rinse with water for 15-30 minutes. Remove contact lenses and open eyes wide apart. Use luke warm water to avoid damage to the eye. Transport to physician. Keep on flushing during transport.
<b>Ingestion</b>	Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

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

<b>Acute symptoms and effects</b>	<p>Inhalation: Vapours may cause drowsiness and dizziness. Inhalation of vapors may cause severe irritation or burns in the respiratory tract. May cause asthma-like respiratory difficulty.</p> <p>Skin contact: Corrosive. Forms blisters and can cause ulceration. May cause sensitisation by skin contact. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching.</p> <p>Eye contact: The chemical is corrosive to the eyes and may cause permanent damage. Symptoms such as strong burning, tearing/watering, redness and blurred vision may occur. In severe cases, there is a risk of visual damage/blindness.</p> <p>Ingestion: Causes burns if swallowed. Causes burning sensation in the mouth, throat and esophagus. May cause serious permanent damage.</p>
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Medical treatment</b>	<p>Treat symptomatically.</p> <p>If you need medical attention, bring the safety data sheet or instructions for use if possible.</p>
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Dry-powder, carbon dioxide (CO <sub>2</sub> ), water mist, alcohol resistant foam.
<b>Improper extinguishing media</b>	Do not use water jet.

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

<b>Fire and explosion hazards</b>	Flammable liquid and vapour.
<b>Hazardous combustion products</b>	May develop highly toxic or corrosive fumes if heated.

May include, but is not limited to: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

<b>Personal protective equipment</b>	Firefighters who may be exposed to smoke or thermal decomposition products shall wear all available personal protective equipment (PPE) and SCBA mask.
<b>Other information</b>	Containers close to fire should be removed immediately or cooled with water. Water used for fire extinguishing, which has been in contact with the product, may be corrosive. Extinguishing water must not be discharged into drains. Extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

<b>General measures</b>	Remove all sources of ignition. Provide adequate ventilation. Stop leak if safe to do so.
<b>Personal protection measures</b>	Avoid inhalation of vapours and contact with skin and eyes. Use protective equipment as referred to in section 8. Beware! The product is corrosive.

### 6.2. Environmental precautions

<b>Environmental precautionary measures</b>	Do not allow to enter into sewer, water system or soil. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

<b>Clean up</b>	Absorb small quantities with paper towels, rags or twist, and store as flammable waste until proper disposal. Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13. Collect and reclaim or dispose in sealed containers in licensed waste. Flush area with plenty of water.
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### 6.4. Reference to other sections

<b>Other instructions</b>	See also sections 8 and 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Handling</b>	Use biocides safely. Always read the label and product information before use. Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Use protective equipment as referred to in section 8. Beware! The product is corrosive.
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Personnel with a history of asthma-type conditions, bronchitis or skin sensitisation conditions should not use this chemical.

## Protective safety measures

<b>Safety measures to prevent fire</b>	Keep away from heat / sparks / open flames / hot surfaces. – No smoking. Take precautionary measures against static discharge.
<b>Advice on general occupational hygiene</b>	Provide easy access to water supply or an emergency shower. Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

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

<b>Storage</b>	Flammable liquid storage. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep out of reach of children.
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## Conditions for safe storage

<b>Advice on storage compatability</b>	Keep away from: Oxidising material. Acids. Bases. Food and feed.
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## 7.3. Specific end use(s)

<b>Specific use(s)</b>	See section 1.2.
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## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 400 ppm Limit value (8 h) : 999 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 500 ppm <b>Limit value (short term)</b> Value: 1250 mg/m <sup>3</sup>	
1,5-Pentanedial	CAS No.: 111-30-8	Limit value (8 h) : 0,05 ppm Limit value (8 h) : 0,2 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 0,05 ppm <b>Limit value (short term)</b> Value: 0,2 mg/m <sup>3</sup> <b>Exposure limit letter</b> Letter code: Sen	
<b>Control parameters comments</b>	References (laws/regulations): EH40/2005 Workplace exposure limits, with later		

amendments.

Explanation of the notations:

Sen = Capable of causing occupational asthma.

## **DNEL / PNEC**

### **DNEL**

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 888 mg/kg

Reference: CAS 67-63-0

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 500 mg/m<sup>3</sup>

Reference: CAS 67-63-0

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 89 mg/m<sup>3</sup>

Reference: CAS 67-63-0

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 319 mg/kg

Reference: CAS 67-63-0

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 26 mg/kg

Reference: CAS 67-63-0

### **PNEC**

Route of exposure: Freshwater

Value: 140,9 mg/l

Reference: CAS 67-63-0

Route of exposure: Saltwater

Value: 140,9 mg/l

Reference: CAS 67-63-0

Route of exposure: Sewage treatment plant STP

Value: 2251 mg/l

Reference: CAS 67-63-0

Route of exposure: Freshwater sediments

Value: 552 mg/kg

Reference: CAS 67-63-0

Route of exposure: Saltwater sediments

Value: 552 mg/kg

Reference: CAS 67-63-0

Route of exposure: Soil

Value: 28 mg/kg

Reference: CAS 67-63-0

Route of exposure: Freshwater

Value: 0,0025 mg/l

Reference: CAS 111-30-8

Route of exposure: Saltwater

Value: 0,00025 mg/l

Reference: CAS 111-30-8

Route of exposure: Sewage treatment plant STP

Value: 0,8 mg/l

Reference: CAS 111-30-8

Route of exposure: Freshwater sediments

Value: 0,527 mg/kg

Reference: CAS 111-30-8

Route of exposure: Saltwater sediments

Value: 0,0527 mg/kg

Reference: CAS 111-30-8

Route of exposure: Soil

Value: 0,03 mg/kg

Reference: CAS 111-30-8

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

#### Technical measures to prevent exposure

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.

A risk assessment of the work place/work activities (the actual risk) may lead to other control measures.

### Eye / face protection

#### Suitable eye protection

Wear tight-fitting goggles or face shield.

#### Eye protection equipment

Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).

#### Additional eye protection measures

Eye wash facilities shall be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

### Hand protection

#### Suitable gloves type

Use gauntlet type rubber gloves. Suitable gloves can be recommended by the glove supplier.

#### Suitable materials

Butyl rubber. Viton rubber (fluor rubber). Multi-layer material (e.g. 4H, Saranex). Neoprene.

#### Breakthrough time

Value: 480 minute(s)

Comments: Neoprengummi. Viton rubber (fluor rubber). Butyl rubber.

#### Thickness of glove material

Value: > 0,3 mm



	Comments: Glove thickness must be chosen in consultation with the glove supplier.
<b>Hand protection equipment</b>	Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves - General requirements and test methods).
<b>Additional hand protection measures</b>	Gloves must only be worn on clean, dry hands. Replace gloves if signs of wear and tear.
<b>Skin protection</b>	
<b>Suitable protective clothing</b>	Use protective clothing, which covers arms and legs. Wear apron or protective clothing in case of contact.
<b>Additional skin protection measures</b>	Emergency shower should be available at the workplace.
<b>Respiratory protection</b>	
<b>Respiratory protection necessary at</b>	In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A/P2). At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
<b>Recommended respiratory protection</b>	Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking).
<b>Appropriate environmental exposure control</b>	
<b>Environmental exposure controls</b>	Do not allow to enter into sewer, water system or soil.

## SECTION 9: Physical and chemical properties

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

<b>Form</b>	Liquid
<b>Colour</b>	Green.
<b>Odour</b>	Pungent.
<b>Odour limit</b>	Comments: Data lacking.
<b>pH</b>	Comments: Not determined.
<b>Melting point / melting range</b>	Comments: Not determined.
<b>Boiling point / boiling range</b>	Value: ~ 89 °C
<b>Flash point</b>	Value: ~ 24 °C
<b>Evaporation rate</b>	Comments: Not determined.
<b>Flammability</b>	Not relevant, see flash point.
<b>Explosion limit</b>	Value: 2 - 13 % Test reference: CAS 67-63-0
<b>Vapour pressure</b>	Comments: Not determined.

<b>Vapour density</b>	Comments: Not determined.
<b>Density</b>	Comments: Not determined.
<b>Solubility</b>	Comments: Miscible with water.
<b>Partition coefficient: n-octanol/ water</b>	Comments: Not relevant for a mixture.
<b>Auto-ignition temperature</b>	Comments: Data lacking.
<b>Decomposition temperature</b>	Comments: Data lacking.
<b>Viscosity</b>	Value: 3,5 Method: ASTM D 7042 Comments: Not determined. Temperature: 40 °C
<b>Explosive properties</b>	The chemical is not explosive, but may form explosive mixtures with air.
<b>Oxidising properties</b>	Not oxidizing.

## 9.2. Other information

### Other physical and chemical properties

**Physical and chemical properties** No further information is available.

#### 9.2.2. Other safety characteristics

**Comments** Data lacking.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Vapors may form explosive mixtures with air.

### 10.2. Chemical stability

**Stability** Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal conditions.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

**Materials to avoid** Oxidizing agents. Acids. Bases, alkalis (inorganic).

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None under normal conditions. See also section 5.2.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Effect tested: LD50  
Route of exposure: Oral  
Value: 5045 mg/kg  
Species: Rat  
Test reference: CAS 67-63-0

Effect tested: LD50  
Route of exposure: Dermal  
Value: 12800 mg/kg  
Species: Rat  
Test reference: CAS 67-63-0

Effect tested: LC50  
Route of exposure: Inhalation (vapour)  
Duration: 4 hour(s)  
Value: 72,6 mg/l  
Species: Rat  
Test reference: CAS 67-63-0

Effect tested: LD50  
Route of exposure: Oral  
Value: 134 mg/kg  
Species: Rat  
Test reference: CAS 111-30-8

Effect tested: LD50  
Route of exposure: Dermal  
Value: > 2500 mg/kg  
Species: Rat  
Test reference: CAS 111-30-8

Effect tested: LC50  
Route of exposure: Inhalation. (dust / mist)  
Value: 0,48 mg/l  
Species: Rat  
Test reference: CAS 111-30-8

### Other information regarding health hazards

<b>Assessment of acute toxicity, classification</b>	Harmful if inhaled and swallowed.
<b>Assessment of skin corrosion / irritation, classification</b>	Causes severe burns to the skin.
<b>Assessment of eye damage or irritation, classification</b>	Causes severe skin burns and eye damage.
<b>Assessment of respiratory sensitisation, classification</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Assessment of skin sensitisation, classification</b>	May cause an allergic skin reaction.

<b>Assessment of germ cell mutagenicity, classification</b>	Based on available data, the classification criteria are not met.
<b>Assessment of carcinogenicity, classification</b>	Based on available data, the classification criteria are not met.
<b>Assessment of reproductive toxicity, classification</b>	Based on available data, the classification criteria are not met.
<b>Assessment of specific target organ toxicity - single exposure, classification</b>	May cause drowsiness or dizziness.
<b>Assessment of specific target organ toxicity - repeated exposure, classification</b>	Based on available data, the classification criteria are not met.
<b>Assessment of aspiration hazard, classification</b>	Based on available data, the classification criteria are not met.

## Symptoms of exposure

<b>In case of ingestion</b>	Causes burns if swallowed. Causes burning sensation in the mouth, throat and esophagus. May cause serious permanent damage.
<b>In case of skin contact</b>	Harmful in contact with skin. Corrosive. Forms blisters and can cause ulceration. May cause sensitisation by skin contact. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching.
<b>In case of inhalation</b>	Vapours may cause drowsiness and dizziness. Inhalation of vapors may cause severe irritation or burns in the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>In case of eye contact</b>	The chemical is corrosive to the eyes and may cause permanent damage. Symptoms such as strong burning, tearing/watering, redness and blurred vision may occur. In severe cases, there is a risk of visual damage/blindness.

## 11.2 Other information

<b>Endocrine disruption</b>	The chemical does not contain any known or suspected endocrine disruptors.
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## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Aquatic toxicity, fish</b>	Toxicity type: Acute Value: 5 mg/l Effect dose concentration: LC50 Exposure time: 96 hour(s) Species: Pimephales promelas Test reference: CAS 111-30-8
	Toxicity type: Acute Value: 20 mg/l Effect dose concentration: LC50 Exposure time: 96 hour(s) Species: Salmo gairdneri Test reference: CAS 52-51-7

**Aquatic toxicity, algae**  
 Toxicity type: Acute  
 Value: 0,08 mg/l  
 Effect dose concentration: EC50  
 Exposure time: 72 hour(s)  
 Test reference: CAS 111-30-8

Toxicity type: Acute  
 Value: 0,05 mg/l  
 Effect dose concentration: IC50  
 Exposure time: 72 hour(s)  
 Test reference: CAS 52-51-7

**Aquatic toxicity, crustacean**  
 Toxicity type: Acute  
 Value: 11,5 mg/l  
 Exposure time: 48 hour(s)  
 Species: Daphnia magna  
 Test reference: CAS 111-30-8

Toxicity type: Acute  
 Value: 1,4 mg/l  
 Effect dose concentration: EC50  
 Exposure time: 48 hour(s)  
 Species: Daphnia magna  
 Test reference: CAS 52-51-7

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

**Persistence and degradability description/evaluation**  
 CAS 64-17-5: Readily biodegradable.  
 CAS 110-30-8: Readily biodegradable.  
 CAS 52-51-7: Not readily biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulation, comments** Not expected to bioaccumulate.

## 12.4. Mobility in soil

**Mobility** The product is miscible with water. May spread in water systems.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** The chemical contains no PBT or vPvB substances.

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** The chemical does not contain any known or suspected endocrine disruptors.

## 12.7. Other adverse effects

**Additional ecological information** Do not allow to enter into sewer, water system or soil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Appropriate methods of disposal for the chemical</b>	Do not empty into drains. Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
<b>EWC waste code</b>	EWC waste code: 070704 other organicsolvents, washing liquids and mother liquors Classified as hazardous waste: Yes
<b>EWL packing</b>	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes

## SECTION 14: Transport information

**Dangerous goods** Yes

### 14.1. UN number

<b>ADR/RID/ADN</b>	2924
<b>IMDG</b>	2924
<b>ICAO/IATA</b>	2924

### 14.2. UN proper shipping name

<b>Proper shipping name English ADR/RID/ADN</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
<b>Technical name/Danger releasing substance English ADR/RID/ADN</b>	(isopropanol, glutaraldehyde)
<b>ADR/RID/ADN</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
<b>Technical name/danger releasing substance ADR/RID/ADN</b>	(isopropanol, glutaraldehyde)
<b>IMDG</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
<b>Technical name/danger releasing substance IMDG</b>	(isopropanol, glutaraldehyde)
<b>ICAO/IATA</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
<b>Technical name/danger releasing substance ICAO/IATA</b>	(isopropanol, glutaraldehyde)

### 14.3. Transport hazard class(es)

<b>ADR/RID/ADN</b>	3 (8)
<b>Classification code ADR/RID/ADN</b>	FC
<b>Subsidiary risk ADR/RID/ADN</b>	(8)

<b>IMDG</b>	3 (8)
<b>Subsidiary risk IMDG</b>	(8)
<b>ICAO/IATA</b>	3 (8)
<b>Subsidiary risk ICAO/IATA</b>	(8)

#### 14.4. Packing group

<b>ADR/RID/ADN</b>	III
<b>IMDG</b>	III
<b>ICAO/IATA</b>	III

#### 14.5. Environmental hazards

<b>IMDG Marine pollutant</b>	No
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#### 14.6. Special precautions for user

<b>Special safety precautions for user</b>	No information.
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#### 14.7. Maritime transport in bulk according to IMO instruments

<b>Transport in bulk (yes/no)</b>	No
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#### Additional information

<b>Hazard label ADR/RID/ADN</b>	3+8
<b>Hazard label IMDG</b>	3+8
<b>Hazard label ICAO/IATA</b>	3+8

#### ADR/RID Other information

<b>Tunnel restriction code</b>	D/E
<b>Transport category</b>	3
<b>Hazard No.</b>	38

#### IMDG Other information

<b>Additional information IMDG</b>	Fp 24 °C.c.c.
<b>EmS</b>	F-E, S-C

## SECTION 15: Regulatory information

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

<b>References (laws/regulations)</b>	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.
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Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.  
Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment.

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009.

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

## 15.2. Chemical safety assessment

**Chemical safety assessment performed** No

## SECTION 16: Other information

<b>Supplier's notes</b>	The information contained in this SDS must be made available to all those who handle the product.
<b>List of relevant H-phrases (Section 2 and 3)</b>	<p>EUH 071 Corrosive to the respiratory tract.  H225 Highly flammable liquid and vapour.  H226 Flammable liquid and vapour.  H301 Toxic if swallowed.  H302 Harmful if swallowed.  H312 Harmful in contact with skin.  H314 Causes severe skin burns and eye damage.  H315 Causes skin irritation.  H317 May cause an allergic skin reaction.  H318 Causes serious eye damage.  H319 Causes serious eye irritation.  H330 Fatal if inhaled.  H332 Harmful if inhaled.  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  H400 Very toxic to aquatic life.  H411 Toxic to aquatic life with long lasting effects.  H412 Harmful to aquatic life with long lasting effects.</p>
<b>CLP classification, comments</b>	Calculation method.
<b>Abbreviations and acronyms used</b>	<p>ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  EWC: European Waste Code (a code from the EU's common classification system for waste)  EC50: The effective concentration of substance that causes 50% of the maximum response  IATA: The International Air Transport Association  IC50: The concentration of compound that results in 50% inhibition of a biological or biochemical function.  ICAO: The International Civil Aviation Organisation  IMDG: The International Maritime Dangerous Goods Code  LC50: Median concentration lethal to 50% of a test population.</p>



LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.

PBT: Persistent, Bioaccumulative and Toxic

RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail

vPvB: very Persistent and very Bioaccumulative

**Version**

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