

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Iceremover

**Product no.**

-

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

NA

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

Pureno A/S  
Rønnevangs Allé 8  
3400 Hillerød  
Denmark  
Tlf.: +45 70 260 267

**Contact person**

Kenneth Christensen

**E-mail**

mail@pureno.dk

**SDS date**

2016-01-19

**SDS Version**

1.0

### 1.4. Emergency telephone number

Use your national or local emergency number  
See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Aerosol 1; H229  
Aerosol 1; H222  
Eye Irrit. 2; H319

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger

**Hazard statement(s)**

Pressurised container: May burst if heated. (H229)  
 Extremely flammable aerosol. (H222)  
 Causes serious eye irritation. (H319)

<b>Safety statement(s)</b>	<b>General</b>	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
	<b>Prevention</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).
	<b>Response</b>	Do not pierce or burn, even after use. (P251). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
	<b>Storage</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412).
	<b>Disposal</b>	-

#### Identity of the substances primarily responsible for the major health hazards

-

### 2.3. Other hazards

#### Additional labelling

-

#### Additional warnings

#### VOC

-

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances/Mixtures

NAME: ethanol  
 IDENTIFICATION NOS.: CAS-no: 64-17-5 EC-no: 200-578-6 Index-no: 603-002-00-5  
 CONTENT: 60-80%  
 CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2  
 H225, H319  
 NOTE: S

NAME: propan-2-ol  
 IDENTIFICATION NOS.: CAS-no: 67-63-0 EC-no: 200-661-7 Index-no: 603-117-00-0  
 CONTENT: 5-10%  
 CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2, STOT SE 3  
 H225, H319, H336  
 NOTE: S

NAME: carbon dioxide  
 IDENTIFICATION NOS.: CAS-no: 124-38-9 EC-no: 204-696-9  
 CONTENT: 5-10%  
 CLP CLASSIFICATION: Refrig. Liq. Gas  
 H281

(\*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

S = Organic solvent

### Other informations

Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 6,5136 - 0

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

#### Inhalation

Get the person into fresh air and stay with them.

**Skin contact**

No special

**Eye contact**

Remove contact lenses. Flush eyes with water (20-30°C) for at least 15 minutes. Call a doctor.

**Ingestion**

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

**Burns**

Rinse with water until the pain stops and continue for 30 minutes.

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

No special

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

No special

**Information to medics**

Bring this safety data sheet.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact.

**SECTION 6: Accidental release measures**

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

Stores that have not ignited must be cooled by water mist. Where possible, remove flammable materials. Make sure there is sufficient ventilation.

**6.2. Environmental precautions**

No specific requirements.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

**6.4. Reference to other sections**

See section on "Disposal" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

See section on 'Exposure controls/personal protection' for information on personal protection.

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

Always store in containers of the same material as the original. Must be stored in a cool and ventilated area, away from possible sources of combustion.

Please be aware that this is a chemical that forms peroxides. The content of peroxide must be controlled regularly after opening for example every 6th month.

**Storage temperature**

No data available.

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

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

carbon dioxide (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 5000 ppm | 9150 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 15000 ppm | 27400 mg/m<sup>3</sup>

ethanol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

#### DNEL / PNEC

### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

#### General recommendations

Observe general occupational hygiene.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

#### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

#### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements.

#### Individual protection measures, such as personal protective equipment



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

If the ventilation at the work place is not sufficient, use a half or whole mask with an appropriate filter or an air-supplied respiratory protector. The choice depends on the concrete work situation and how long you will be using the product.

#### Skin protection

No special

#### Hand protection

No special

#### Eye protection

Use safety glasses with a side shield.

## SECTION 9: Physical and chemical properties

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

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Aerosol	Clear	Alcohol odor	-	-	0,9
<b>Phase changes</b>					
Melting point (°C)		Boiling point (°C)		Vapour pressure (mm Hg)	

-	1	-
<b>Data on fire and explosion hazards</b>		
Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
14	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	
<b>Solubility</b>		
Solubility in water	n-octanol/water coefficient	
Insoluble	-	
<b>9.2. Other information</b>		
Solubility in fat	Additional information	
-	N/A	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Avoid static electricity.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance	Species	Test	Route of exposure	Result
carbon dioxide	Rat	LC50	Inhalation	470000 ppm 0,5 h
propan-2-ol	Rabbit	LD50	Dermal	>2000 mg/kg
propan-2-ol	Rat	LD50	Oral	5840 mg/kg
propan-2-ol	Rat	LC50	Inhalation	66,1mg/l 4 h
propan-2-ol	Rat	LC50	Inhalation	47,5mg/l 8 h
ethanol	Rat	LD50	Oral	10470 mg/kg
ethanol	Rabbit	LD50	Dermal	>17100 mg/kg
ethanol	Rat	LC50	Inhalation	124,7 mg/l

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

No data available.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Long term effects

Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled.

Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Test duration	Result
propan-2-ol	Algae	NOEC	8d	>1800 mg/l
propan-2-ol	Fish	LC50	96 h	8970-9280 mg/l
propan-2-ol	Daphnia	EC50	24 h	9714 mg/l
propan-2-ol	Crustacean	EC10	18 h	5175 mg/l
propan-2-ol	Crustacean	EC50		>1000mg/l
ethanol	Fish	LC50	48 h	8150 mg/l
ethanol	Fish	LC50	96h	1100 mg/l
ethanol	Daphnia	EC50	48 h	9268-14221 mg/l
ethanol	Algae	EC0	168 h	5000 mg/l
ethanol	Crustacean	EC0	16 h	6500 mg/l

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
propan-2-ol	Yes	Modified OECD Screening Test	95%
ethanol	Yes	No data available	No data available

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
carbon dioxide	No	0,83	No data available
propan-2-ol	No	No data available	No data available
ethanol	No	No data available	No data available

### 12.4. Mobility in soil

carbon dioxide: Log Koc= 0,735677, Calculated from LogPow (High mobility potential.).

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code  
16.05.04

#### Specific labelling

-

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

## SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

### 14.1 – 14.4

#### ADR/RID

14.1. UN number	1950
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	2.1
14.4. Packing group	II
Notes	-
Tunnel restriction code	-

#### IMDG

UN-no.	1950
Proper Shipping Name	Aerosols

<b>Class</b>	2.1
<b>PG*</b>	II
<b>EmS</b>	F-D, S-U
<b>MP**</b>	NO
<b>Hazardous constituent</b>	-

▼ **IATA/ICAO**

<b>UN-no.</b>	
<b>Proper Shipping Name</b>	
<b>Class</b>	
<b>PG*</b>	

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

-

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

#### Demands for specific education

-

#### Additional information

#### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

EC Regulation 1272/2008 (CLP).

EC regulation 1907/2006 (REACH).

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H281 - Contains refrigerated gas; may cause cryogenic burns or injury.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

### The full text of identified uses as mentioned in section 1

-

### Other symbols mentioned in section 2



### Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

**The safety data sheet is validated by**

KAO

**Date of last essential change  
(First cipher in SDS version)**

2015-12-07

**Date of last minor change  
(Last cipher in SDS version)**

2015-12-07