

## Safety Data Sheet

acc. to OSHA HCS

Printing date 08/04/2019

Reviewed on 08/04/2019

### 1 Identification

#### Product identifier

**Trade name: Freezing Point Depressant**
**Application of the substance / the mixture** Remainder

**Details of the supplier of the safety data sheet**
**Manufacturer / Importer / Supplier:**

Romaco BV

Edisonstraat 11

NL - 3261 LD Oud-Beijerland

The Netherlands

Tel: +31 186 615244

Fax: +31 186 619385

Email: info@rochem.nl

**Information department:** Product safety department.

**Emergency telephone number:**

Europe, Middle East &amp; Africa: +44 1865 407333

Americas: +1 215 207 0061

Canada: +1 800 579 7421 (Toll Free)

United States: +1 866 928 0789 (Toll Free)

East/South East Asia: +65 3158 1412

Australia: +61 18000 74234 (Toll Free) acces from Austalia only

### 2 Hazard(s) identification

#### Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

#### Label elements

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS05, GHS07

**Signal word** Danger

#### Hazard-determining components of labeling:

ethane-1,2-diol

#### Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

#### Precautionary statements

Do not breathe dusts or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

If swallowed: Call a poison center/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

Specific treatment (see on this label).

If swallowed: Rinse mouth. Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Classification system:**
**NFPA ratings (scale 0 - 4)**

Health = 3  
Fire = 1  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	*3
FIRE	1
REACTIVITY	0

Health = \*3  
Fire = 1  
Reactivity = 0

**Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Composition/information on ingredients

**Chemical characterization: Mixtures**
**Description:** Mixture of substances listed below, possibly with non-hazardous additions.

**Dangerous components:**

107-21-1	ethane-1,2-diol	⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	50-100%
57-55-6	Propylene glycol		25-50%

## 4 First-aid measures

**Description of first aid measures**
**General information:**

Persons, providing assistance, should avoid exposure and danger for themselves or others.

Never give anything by mouth to an unconscious person.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:**

Remove the victim into fresh air, and keep at rest in a position that facilitates breathing.

Seek medical treatment in case of complaints.

**After skin contact:** Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

**After eye contact:**

If possible, remove contact lenses.

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

**After ingestion:**

Rinse mouth with plenty of water.

Immediately call a doctor.

**Information for doctor:**
**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing media**
**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**
**Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

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## Environmental precautions:

Remainder dilute with plenty of water.

for disposing to sewer: seek approval from Sewer System Operator

## Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to regulations

Ensure adequate ventilation.

## Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Protective Action Criteria for Chemicals

### PAC-1:

107-21-1	ethane-1,2-diol	30 ppm
57-55-6	Propylene glycol	30 mg/m <sup>3</sup>

### PAC-2:

107-21-1	ethane-1,2-diol	150 ppm
57-55-6	Propylene glycol	1,300 mg/m <sup>3</sup>

### PAC-3:

107-21-1	ethane-1,2-diol	900 ppm
57-55-6	Propylene glycol	7,900 mg/m <sup>3</sup>

## 7 Handling and storage

### Handling:

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about protection against explosions and fires:** No special measures required.

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

#### Storage:

**Requirements to be met by storerooms and tanks:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see section 7.

### Control parameters

#### Components with limit values that require monitoring at the workplace:

##### 107-21-1 ethane-1,2-diol

TLV Short-term value: 10\*\* mg/m<sup>3</sup>, 50\* ppm  
Long-term value: 25\* ppm  
\*vapor fraction:\*\*inh. fraction, aerosol only

WEEL I (2)

##### 57-55-6 Propylene glycol

WEEL Long-term value: 10 mg/m<sup>3</sup>
**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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## Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Filtertype A (brown)

## Protection of hands:

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labeling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

## Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Gloves made of Nitrile rubber, NBR

## Penetration time of glove material

Permeation: Breakthrough time &gt; 360 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

**Body protection:** Protective work clothing

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Liquid
Color:	Colorless
Odor:	Light
Odor threshold:	Not determined.

pH-value: Not determined.

#### Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	196 °C (384.8 °F)

Flash point: 101 °C (213.8 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 371 °C (699.8 °F)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

#### Explosion limits:

Lower:	2.6 Vol %
Upper:	53.0 Vol %

Vapor pressure at 20 °C (68 °F): 0.1 hPa (0.1 mm Hg)

Density at 20 °C (68 °F): 1.08 g/cm³ (9.013 lbs/gal)

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

#### Solubility in / Miscibility with

Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

#### Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

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**Solvent content:**
**VOC (USA, EPA Method 24/24A)** -

**Other information**

No further relevant information available.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability**
**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

**Information on toxicological effects**
**Acute toxicity:**
**LD/LC50 values that are relevant for classification:**
**107-21-1 ethane-1,2-diol**

Oral LD50 5,840 mg/kg (Rat)

Dermal LD50 9,530 mg/kg (rbt)

**57-55-6 Propylene glycol**

Oral LD50 20,000 mg/kg (Rat)

Dermal LD50 20,800 mg/kg (rbt)

**Primary irritant effect:**
**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

**Carcinogenic categories**
**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

**Toxicity**
**Aquatic toxicity:**
**107-21-1 ethane-1,2-diol**

LC50/96h 72,860 mg/l (Pimephales promelas)

EC50/48h &gt;100 mg/l (Daphnia Magna)

EC50/96h 6,500-13,000 mg/l (Algae)

EC50/30 min 225 mg/l (Bacteria)

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**
**Bioaccumulative potential** No further relevant information available.

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**Mobility in soil** No further relevant information available.

**Additional ecological information:**
**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

**Waste treatment methods**
**Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**
**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

**UN-Number**

DOT, ADR/RID/ADN, ADN, IMDG, IATA

Void

**UN proper shipping name**

DOT, ADR/RID/ADN, ADN, IMDG, IATA

Void

**Transport hazard class(es)**

DOT, ADR/RID/ADN, ADN, IMDG, IATA

Class

Void

**Packing group**

DOT, ADR/RID/ADN, IMDG, IATA

Void

**Environmental hazards:**
**Marine pollutant:**

No

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78**
**and the IBC Code**

Not applicable.

**UN "Model Regulation":**

Void

## 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**
**Sara**
**Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**

107-21-1 ethane-1,2-diol

**TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**Hazardous Air Pollutants**

107-21-1 ethane-1,2-diol

**Proposition 65**
**Chemicals known to cause cancer:**

None of the ingredients is listed.

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**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

107-21-1 ethane-1,2-diol

**Carcinogenicity categories**
**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

107-21-1 ethane-1,2-diol

A4

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS05, GHS07

**Signal word** Danger

**Hazard-determining components of labeling:**

ethane-1,2-diol

**Hazard statements**

Harmful if swallowed.

Causes severe skin burns and eye damage.

**Precautionary statements**

Do not breathe dusts or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

If swallowed: Call a poison center/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

Specific treatment (see on this label).

If swallowed: Rinse mouth. Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

**Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Department issuing SDS:** Environment protection department.

**Date of preparation / last revision** 08/04/2019 / 3

**Abbreviations and acronyms:**

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

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NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 EC50: Effective Concentration, 50 percent  
 IOELVS: Indicative Occupational Exposure Limit Values  
 mPa.s: milliPascal per second  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**\* Data compared to the previous version altered.**

### Disclaimer

The information provided in this Material Safety Data Sheet has been prepared with the utmost care and corresponds to the most recent information available to the supplier on the date of publication mentioned in the header of every page. The contents of this Material Safety Data Sheet should not be considered as a guarantee for certain product properties or fitness for particular purposes. It is the obligation of the user to determine whether the product is suitable for the specific purpose, intended use and the method of application. This Safety Data Sheet only relates to the product described and does not apply to any not defined use or the use of the product in combination with other materials, substances or products. It is the responsibility of the user to use and handle the product with care and to comply with all applicable laws and regulations. The supplier accepts no liability for direct or indirect damages resulting from improper use of this Material Safety Data Sheet and / or the products described therein.

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