

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

ClimateCooler Flex Topcoat

Product no.

-

REACH registration number

Not applicable

Other means of identification

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

Relevant identified uses of the substance or mixture

Roofpaint

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

Iso Paint Nordic A/S
Tværvej 8
6640 Lunderskov
tlf: +45 7633 3114
fax: +45 76333115

Contact person

Eva Paulsen

E-mail

driftslab@isopaint.dk

SDS date

30-01-2014

SDS Version

2.1

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

This product is not classified as dangerous.
See full text of H/R-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

-

Hazard statement(s)

-

Identity of the substances primarily responsible for the major health hazards

Safety statement(s)	General	-
	Prevention	In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
	Response	-
	Storage	-
	Disposal	-

2.3. Other hazards

Additional labelling

Safety data sheet available on request.

Additional warnings

-

VOC

VOC-MAX: 40 g/l, MAXIMUM VOC CONTENT (A (WB)): 40 g/l.

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances

NAME:	water
IDENTIFICATION NOS.:	CAS-no: 7732-18-5 EC-no: -
CONTENT:	15-25%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	propane-1,2-diol
IDENTIFICATION NOS.:	CAS-no: 57-55-6 EC-no: 200-338-0 REACH-no: 01-2011-9456809-23
CONTENT:	1-5%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	2-(2-butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 Index-no: 603-096-00-8
CONTENT:	1-5%
DSD CLASSIFICATION:	Xi;R36
CLP CLASSIFICATION:	Eye Irrit. 2 H319

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

Other informations

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 injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact 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

No specific requirements.

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 considerations" 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.

Storage temperature

NA

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

2-(2-butoxyethoxy)ethanol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67.5 mg/m³

Short-term exposure limit (15-minute reference period): 15 ppm | 101.2 mg/m³

propane-1,2-diol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

DNEL / PNEC

DNEL (propane-1,2-diol): 158 mg/m³ - Exposure: Inhalation - Duration: Long term - systemic effect - Remarks: Workers

DNEL (propane-1,2-diol): 10 mg/m³ - Exposure: Inhalation - Duration: Long term - local effect - Remarks: Workers

DNEL (propane-1,2-diol): 50 mg/m³ - Exposure: Inhalation - Duration: Long term - systemic effect - Remarks: General population

DNEL (propane-1,2-diol): 10 mg/m³ - Exposure: Inhalation - Duration: Long term - local effect - Remarks: General population

DNEL (2-(2-butoxyethoxy)ethanol): 101,2 mg/l - Exposure: Inhalation - Duration: short term local - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 20 mg/kg - Exposure: Dermal - Duration: long term systemic - Remarks: Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67,5 mg/m³ - Exposure: Inhalation - Duration: long term systemic - Remarks: Workers

According to EC-Regulation 1907/2006 (REACH)

DNEL (2-(2-butoxyethoxy)ethanol): 67,5 mg/m³ - Exposure: Inhalation - Duration: long term local - Remarks: Workers
DNEL (2-(2-butoxyethoxy)ethanol): 50,6 mg/m³ - Exposure: Inhalation - Duration: short term local - Remarks: General population
DNEL (2-(2-butoxyethoxy)ethanol): 10 mg/kg - Exposure: Dermal - Duration: long term systemic - Remarks: General population
DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m³ - Exposure: Inhalation - Duration: ong term systemic - Remarks: General population
DNEL (2-(2-butoxyethoxy)ethanol): 1,25 mg/kg - Exposure: Oral - Duration: ong term systemic - Remarks: General population
DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m³ - Exposure: Inhalation - Duration: long term local - Remarks: General population

PNEC (propane-1,2-diol): 260 mg/l - Exposure: Water - Duration: Single - Remarks: Fresh water
PNEC (propane-1,2-diol): 26 mg/l - Exposure: Water - Duration: Single - Remarks: Marine water
PNEC (propane-1,2-diol): 183 mg/l - Exposure: Water - Duration: Continuous - Remarks: Intermittent releases
PNEC (propane-1,2-diol): 50 mg/kg - Exposure: Soil - Duration: Single
PNEC (2-(2-butoxyethoxy)ethanol): 1 mg/l - Exposure: Water - Duration: Single - Remarks: Fresh water
PNEC (2-(2-butoxyethoxy)ethanol): 0,1 mg/l - Exposure: Water - Duration: Single - Remarks: Marine water
PNEC (2-(2-butoxyethoxy)ethanol): 3,9 mg/l - Exposure: Water - Duration: Continuous - Remarks: Intermittent releases
PNEC (2-(2-butoxyethoxy)ethanol): 0,4 mg/kg - Exposure: Soil - Duration: Single

8.2. Exposure controls

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

General recommendations

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

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

Only CE-marked personal protection equipment should be used.

Respiratory Equipment

Recommended: S/SL, P1, White

Skin protection

No specific requirements.

Hand protection

Recommended: Nitrile rubber. Breakthrough time: See the manufacturer's instructions

Eye protection

No specific requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm ³)
Liquid	Various colours	Mild	-	-	1,25

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	

-	-
Solubility	
Solubility in water	n-octanol/water coefficient
Soluble	-
9.2. Other information	
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**
Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.
- 10.5. Incompatible materials**
Strong acids, strong bases, strong oxidising agents, and strong catabolic 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
propane-1,2-diol	Rat	LD50	Oral	22000 mg/kg
propane-1,2-diol	Rabbit	LC50	Inhalation	317042 mg/m3
Skin corrosion/irritation				
No data available.				
Serious eye damage/irritation				
No data available.				
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				
No special				

SECTION 12: Ecological information

12.1. Toxicity				
Substance	Species	Test	Test duration	Result
propane-1,2-diol	Fish	LC50	96 h	40613 mg/l
2-(2-butoxyethoxy)ethanol	Fish	LC50	96 h	130 mg/l
2-(2-butoxyethoxy)ethanol	Daphnia	EC50	48 h	>100 mg/l
2-(2-butoxyethoxy)ethanol	Algae	EC50	96 h	>100 mg/l
12.2. Persistence and degradability				
Substance	Biodegradability	Test	Result	

According to EC-Regulation 1907/2006 (REACH)

propane-1,2-diol		Modified OECD Screening Test	81,7
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD Screening Test	85%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
propane-1,2-diol	No	-107	No data available
2-(2-butoxyethoxy)ethanol	No	0,905	No data available

12.4. Mobility in soil

propane-1,2-diol: Log Koc= -84,6549, Calculated from LogPow (). 2-(2-butoxyethoxy)ethanol: Log Koc= 0,7950695, 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

This product is not covered by the regulations on dangerous waste.

Waste

EWC code

-

Specific labelling

-

Contaminated packing

No specific requirements.

SECTION 14: Transport information

Not listed as dangerous goods under ADR and IMDG regulations.

14.1 – 14.4

ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group			Notes
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS	MP**	Hazardous constituent

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

-

Demands for specific education

-

Additional information

-

15.2. Chemical safety assessment

No

SECTION 16: Other information'

According to EC-Regulation 1907/2006 (REACH)

Sources

EC regulation 1907/2006 (REACH)
Directive 2000/532/EC
EC Regulation 1272/2008 (CLP)

Full text of H/R-phrases as mentioned in section 3

R36 - Irritating to eyes.
H319 - Causes serious eye irritation.

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

Eva Paulsen

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

27-11-2013

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

30-01-2014

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