



## Lock Defroster

Print date : 04.10.2007

Product code : 486

Page 1 of 6

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

Lock Defroster

#### Company/undertaking identification

Company name : CTP-GmbH  
Street : Saalfelder Straße 35  
Place : D-07338 Leutenberg  
Telephone : +4936734/230-0  
Contact person : Jens Moeller, Dipl.-Chem.  
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Telefax : +4936734/230-22  
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#### Further Information

Article Number: 23011

### 2. Hazards identification

#### Classification

Indications of danger : Highly flammable, Irritant

R-phrases :

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

### 3. Composition/information on ingredients

#### Chemical characterization ( preparation )

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-661-7	67-63-0	isopropanol, isopropyl alcohol, propan-2-ol	>20 %	F, Xi R11-36-67
203-473-3	107-21-1	ethanediol, ethylene glycol	< 20 %	Xn R22

Full text of each relevant R phrase can be found in heading 16.

### 4. First aid measures

#### General information

Take off immediately all contaminated clothing

#### After inhalation

Following inhalation: Move victim to fresh air. Consult physician.

#### After contact with skin

After contact with skin, wash immediately with plenty of Water and soap.

Consult physician.

#### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect).

Consult physician.

#### Advice to doctor



## Lock Defroster

Print date : 04.10.2007

Product code : 486

Page 2 of 6

After ingestion of absorption substances:  
Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Water fog. alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

#### Extinguishing media which must not be used for safety reasons

High power water jet.

#### Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Cool endangered container in case of fire.  
Heating causes rise in pressure with risk of bursting.

#### Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

### 6. Accidental release measures

#### Personal precautions

Wear personal protection equipment.  
Provide adequate ventilation.

#### Environmental precautions

Do not empty into drains or the aquatic environment.

#### Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed containers for disposal.

### 7. Handling and storage

#### Handling

##### Advice on safe handling

Provide adequate ventilation.  
Avoid contact with skin and eyes.

##### Advice on protection against fire and explosion

Take precautionary measures against static discharges. Keep away from sources of ignition. No smoking.  
Use explosion-protected machinery, apparatus, suction equipment, appliances etc.

#### Storage

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from moisture.

Storageclass (VCI) : 3 A

### 8. Exposure controls/personal protection

#### Exposure limit values

**Lock Defroster**

Print date : 04.10.2007

Product code : 486

Page 3 of 6

**Exposure limits (EH40)**

CAS No.	Substance	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

**BAT values (TRGS 903)**

CAS No.	Substance	Value	Parameter	Test material	Sampling time
67-63-0	2-Propanol	50 mg/l	Aceton	B	b

**Exposure controls**

**Protective and hygiene measures**

Provide adequate ventilation.  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin and eyes.  
Take off immediately all contaminated clothing  
When using do not eat, drink or smoke.  
Protect skin by using skin protective cream.

**Respiratory protection**

Wear suitable respiratory equipment when: exceeding exposure limits, formation of fumes/aerosols.  
Wear suitable breathing apparatus (filter typ ABEK).

**Hand protection**

Suitable material: Butyl rubber, FKM (Fluoroelastomer (Viton)).  
Material thickness: 0.4 – 0.5 mm  
penetration time >= 480 min In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

**Eye protection**

Tightly sealed safety glasses.

**9. Physical and chemical properties**

**General information**

Physical state : liquid  
Colour : blue  
Odour : alcoholic

**Important health, safety and environmental information**

pH-Value (at 20 °C) : 6,5 - 7,5 Test method

**Changes in the physical state**

Flash point : < 21 °C DIN 51755  
Lower explosion limits : 2 vol. %  
Upper explosion limits : 15 vol. %  
Density (at 20 °C) : ca. 0,8 g/cm<sup>3</sup> DIN 51757  
Water solubility : miscible.  
Viscosity / dynamic : DIN 53015

**Other information**



## Lock Defroster

Print date : 04.10.2007

Product code : 486

Page 4 of 6

Ignition temperature :

DIN 51794

### 10. Stability and reactivity

#### Materials to avoid

Strong oxidizing agents.

#### Hazardous decomposition products

none

thermal decomposition: standard pressure decomposition distillable

Reacts violently with: Oxidizing agents, strong.

### 11. Toxicological information

#### Acute toxicity

Vapours may cause drowsiness and dizziness.

#### Corrosive and irritant effects

Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

### 12. Ecological information

#### Ecotoxicity

Ecotoxicological effects Toxicological data are not available.

#### Persistence and degradability

Some of the components are biodegradable. (alcoholes)

### 13. Disposal considerations

#### Advice on disposal

Carry out a burning of hazardous waste according to official regulations.

Arrange about the exact waste code with the local waste disposal expert.

#### Waste disposal number of waste from residues/unused products

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

#### Waste disposal number of used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

### 14. Transport information

#### Land transport (ADR/RID)

UN number :	1987
ADR/RID class :	3
Classification code :	F 1
Warning plate	
Hazard-no. :	33
Hazard label :	3
ADR/RID packing group :	II
Limited quantity :	3 I

#### Description of the goods

ALCOHOLS, N.O.S.

#### Inland waterways transport

**Lock Defroster**

Print date : 04.10.2007

Product code : 486

Page 5 of 6

**Remarks (inland waterways transport)**

No data

**Marine transport**

UN number : 1987  
 IMDG code : 3  
 Marine pollutant : MP  
 Hazard label : 3  
 IMDG packing group : II  
 EmS : F-E, S-D  
 Limited quantity : 1 I

**Description of the goods**

ALCOHOLS, N.O.S.

**Air transport**

UN/ID number : 1987  
 ICAO/IATA-DGR : 3  
 Hazard label : 3  
 ICAO packing group : II  
 Limited quantity Passenger : 1 I  
 IATA-packing instructions - Passenger : 305  
 IATA-max. quantity - Passenger : 5 I  
 IATA-packing instructions - Cargo : 307  
 IATA-max. quantity - Cargo : 60 I

**Description of the goods**

ALCOHOLS, N.O.S.

**15. Regulatory information**

**Labelling**

Danger symbols : F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

**R phrases**

11 Highly flammable.  
 36 Irritating to eyes.  
 67 Vapours may cause drowsiness and dizziness.

**S phrases**

02 Keep out of the reach of children.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 24/25 Avoid contact with skin and eyes.

**National regulatory information**

Water contaminating class : 1 - slightly water contaminating

**16. Other information**

**Full text of R-phrases referred to under sections 2 and 3**

11 Highly flammable.  
 22 Harmful if swallowed.  
 36 Irritating to eyes.



**Lock Defroster**

Print date : 04.10.2007

Product code : 486

Page 6 of 6

67 Vapours may cause drowsiness and dizziness.

**Other data**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*