

Trade name: Bromoformium

Date revised: 13.08.09

Dangerous substance number: 072300

Version: 1 / CH

Date of printing: 13.08.09

## **01. Identification of the substance/preparation and of the company/undertaking**

### **Trade name**

Bromoformium

Item-No. 07230000

### **Company/undertaking identification**

#### **Address**

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

Emergency telephone 0041 (0)44 251 51 51

## **02. Hazards identification**

### **Hazard symbols**

T Toxic  
N Dangerous for the environment

### **R phrases**

23 Toxic by inhalation.  
36/38 Irritating to eyes and skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **03. Composition / information on ingredients**

CAS-Nr. 75-25-2  
EINECS-Nr. 200-854-6

### **Molecular weight**

Value 252.75

## **04. First aid measures**

### **After inhalation**

Remove the casualty into fresh air and keep him calm.. Irregular breathing/no breathing: artificial respiration.. If necessary, give oxygen

### **After skin contact**

In case of contact with skin wash off with water.. Wash skin thoroughly with water (15 min.).. Remove contaminated, soaked clothing immediately and dispose of safely.. Take for medical treatment.

### **After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.).. Begin with medical treatment.

### **After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).. Summon a doctor immediately.

## **05. Fire-fighting measures**

### **Suitable extinguishing media**

Water spray jet, Carbon dioxide, Dry chemical extinguisher, Foam

### **Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**



Trade name: Bromoformium

Date revised: 13.08.09

Dangerous substance number: 072300

Version: 1 / CH

Date of printing: 13.08.09

Development of toxic gases

**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.; Wear protective clothing.

**06. Accidental release measures****Personal precautions**

Keep people away and stay on the upwind side.. Respiratory protection. Wear gauntlets (possible from natural rubber) to remove spilled product.

**Methods for cleaning up**

Take up with absorbent material (eg sand, kieselguhr).. Provide adequate ventilation.. Clean up affected area.

**07. Handling and storage****Handling****Advice on safe handling**

Avoid inhaling dusts/ billows/ steams.. Avoid contact with skin, eyes and clothing.. Avoid longer or repeated exposition.

**Storage****Further information on storage conditions**

Keep container tightly closed.

**08. Expose controls/personal protection****Exposure limit values****Bromoform**

Type	MAK			
Value	5	mg/m <sup>3</sup>	0.5	ppm(V)
Skin resorption / sensibilisation	H			

**General protective and hygiene measures**

Hold eye wash fountain available. Hold emergency shower available. Wash contaminated clothing before reuse. Wash thoroughly after work.

**Occupational exposure controls****Respiratory protection**

Self-contained breathing apparatus.; Full mask; Provide good ventilation of working area (local exhaust ventilation if necessary).

**Hand protection**

Appropriate Material                      Gloves / resistant to chemicals

**Eye protection**

Safety glasses

**09. Physical and chemical properties****General information**

Form    Liquid

**Important health, safety and environmental information****Flash point**

Remarks                                      not applicable



Trade name: Bromoformium

Date revised: 13.08.09

Dangerous substance number: 072300

Version: 1 / CH

Date of printing: 13.08.09

**Boiling point**

Value	146.0	to	150.0	°C
Pressure	1.0133	bar		

**Melting point**

Value	8			°C
-------	---	--	--	----

**Ignition temperature**

Remarks	not applicable
---------	----------------

**Fire promoting Properties**

Remarks	not applicable
---------	----------------

**Explosion limits**

Remarks	not applicable
---------	----------------

**Vapour pressure**

Value	0.007		bar
temperature	20	°C	

**Density**

Value	2.894		g/cm <sup>3</sup>
-------	-------	--	-------------------

**Bulk density**

Remarks	not applicable
---------	----------------

**Solubility in**

Remarks	not applicable
---------	----------------

**pH**

Remarks	not applicable
---------	----------------

**log Pow**

Remarks	not applicable
---------	----------------

**Solvent content**

Remarks	not applicable
---------	----------------

**Flammability :**

not applicable
----------------

**10. Stability and reactivity****Conditions to avoid**

Protect from light.
---------------------

**Materials to avoid**

Alkaline metals, Aluminium, Magnesium
---------------------------------------

**Hazardous decomposition products**

Hazardous decomposition products: Hydrogen bromide, Carbon monoxide and carbon dioxide
--

**Other information**

chemical stable
-----------------

**11. Toxicological information****Acute toxicity / further data****Acute oral toxicity**

Species	Human		
LDLo	rat	143	mg/kg
Species	rat		
LD50		933	mg/kg

**Acute dermal toxicity**



Trade name: Bromoformium

Date revised: 13.08.09

Dangerous substance number: 072300

Version: 1 / CH

Date of printing: 13.08.09

Remarks Danger of resorption through the skin.

**Irritant/corrosive effects****Irritant effect on skin**

Remarks Irritating to skin.

**Irritant effect on eyes**

Remarks Irritates the eyes.

**Effects after repeated or prolonged exposition (subacute, subchronic, cronic)****Subacute, subchronic, chronic toxicity**

Route of exposure	oral
Species	rat
Duration of exposure	2 y
Remarks	May cause cancer.
Route of exposure	oral
Species	guinea pig
Duration of exposure	8 Weeks
Remarks	May cause cancer.

**Mutagenicity**

Species	Human
valuation	Information on genotoxicity in vitro available.

**Carcinogenicity**

Remarks May cause cancer.

**Experience in practice**

May be harmful by inhalation, ingestion, skin adsorption.. Target organs: liver, nerves, kidneys, lungs.

**12. Ecological information****Fish toxicity**

LC50	7	mg/l
Duration of exposure	96	h

**13. Disposal considerations****Disposal recommendations for the product**

In accordance with regulations for special waste, must be taken, after pretreatment, to an authorised special waste incineration plant.

Disposal in compliance with local and national regulations.

**14. Transport information****Land transport ADR/RID**

UN number	2515
Class	6.1
Packing group	III
Label	6.1
Technical name	BROMOFORM

**Marine transport IMDG/GGVSee**

UN number	2515
Class	6.1
Packing group	III
Technical name	BROMOFORM
Marine Pollutant	p

**Air transport ICAO/IATA**

UN number	2515
-----------	------

Trade name: Bromoformium

Date revised: 13.08.09

Dangerous substance number: 072300

Version: 1 / CH

Date of printing: 13.08.09

Class	6.1
Packing group	III
Technical name	BROMOFORM

## 15. Regulatory information

### Hazard symbols

T	Toxic
N	Dangerous for the environment

### Hazardous component(s) to be indicated on label

#### R phrases

23	Toxic by inhalation.
36/38	Irritating to eyes and skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S phrases

28.1	After contact with skin, wash immediately with plenty of water.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

#### Water Hazard Class (Ger.)

Water Hazard Class (Ger.)	WGK 3
Identification number	4521
Classification according to Annex 3 VwVwS	

## 16. Other information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.