

Halon 1211

Print date: 08.12.2014

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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Product code:

351.252

CAS No:

353-59-3

EC No:

206-537-9

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

halogenated hydrocarbons

1.3. Details of the supplier of the safety data sheet

Company name:	TOTAL Feuerschutz GmbH	
Street:	Industriestraße 13	
Place:	D-68526 Ladenburg	
Telephone:	+49 6203 75-0	Telefax: +49 6203 75-252
e-mail:	total@tycoint.com	
Contact person:	H. Bach	Telephone: +49 6203 75-213
e-mail:	hbach@tycoint.com	
Internet:	www.total-feuerschutz.de	
Responsible Department:	Abteilung Technik	

1.4. Emergency telephone number:Giftnotruf Mainz - 24 Stunden Notdienst
+49 (0)6131 19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Indications of danger: N - Dangerous for the environment

R phrases:

Dangerous for the ozone layer.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Gases under pressure: Liquefied gas

Hazardous for the ozone layer: Ozone 1

Hazard Statements:

Contains gas under pressure; may explode if heated.

Harms public health and the environment by destroying ozone in the upper atmosphere.

2.2. Label elements

Signal word:

Warning

Pictograms:

GHS04-GHS07

**Hazard statements**

H280

Contains gas under pressure; may explode if heated.

H420

Harms public health and the environment by destroying ozone in the upper atmosphere.

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Precautionary statements

P410+P403 Protect from sunlight. Store in a well-ventilated place.
P502 Refer to manufacturer/supplier for information on recovery/recycling.

2.3. Other hazards

Ozone depletion potential (ODP): 3,0

SECTION 3: Composition/information on ingredients**3.1. Substances****Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
206-537-9	Bromochlorodifluoromethane	75 - < 100 %
353-59-3	N - Dangerous for the environment R59	
	Liquefied gas, Ozone 1; H280 H420	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

Ventilate affected area.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

halogenated hydrocarbons

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special

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purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: gaseous
Colour: colourless
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: -4 °C
Flash point: not applicable

Flammability

Solid: not applicable
Gas: not determined

Explosive properties

The product is not: Explosive

Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
Gas: not determined

Decomposition temperature: > 480 °C

Oxidizing properties

Not oxidizing.

Vapour pressure: 2270 hPa
(at 20 °C)

Vapour pressure: 5600 hPa
(at 50 °C)

Density: 1,83 g/cm³
Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: 5,7

Evaporation rate: not determined

9.2. Other information

Solid content: 0 %

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SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.
Decomposition temperature: > 480°C

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Metal (Reactivity)

10.6. Hazardous decomposition products

Gases/vapours, toxic.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Classification of the substance or mixture: none

Irritation and corrosivity

Classification of the substance or mixture: none

Sensitising effects

Classification of the substance or mixture: none

STOT-single exposure

Classification of the substance or mixture: none

Severe effects after repeated or prolonged exposure

Classification of the substance or mixture: none

Carcinogenic/mutagenic/toxic effects for reproduction

Classification of the substance or mixture: none

Aspiration hazard

Classification of the substance or mixture: none

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

Dangerous for the ozone layer.

12.2. Persistence and degradability

photolysis: > 50 % (Exposure time (days): 5200)

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

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12.6. Other adverse effects

Ozone depletion potential (ODP): 3,0

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 1974

14.2. UN proper shipping name:

CHLORODIFLUOROBROMOMETHANE (REFRIGERANT GAS R 12B1)

14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.2



Classification code:

2A

Limited quantity:

120 mL

Transport category:

3

Hazard No:

20

Tunnel restriction code:

C/E

Other applicable information (land transport)

Excepted quantity: E1

Inland waterways transport (ADN)**14.1. UN number:**

UN 1974

14.2. UN proper shipping name:

CHLORODIFLUOROBROMOMETHANE (REFRIGERANT GAS R 12B1)

14.3. Transport hazard class(es):

2

14.4. Packing group:

-

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Hazard label: 2.2



Classification code: 2A

Limited quantity: 120 mL

Other applicable information (inland waterways transport)

Excepted quantity: E1

Marine transport (IMDG)**14.1. UN number:** UN 1974**14.2. UN proper shipping name:** CHLORODIFLUOROBROMOMETHANE (REFRIGERANT GAS R 12B1)**14.3. Transport hazard class(es):** 2.2**14.4. Packing group:** -

Hazard label: 2.2



Special Provisions: -

Limited quantity: 120 mL

EmS: F-C, S-V

Other applicable information (marine transport)

Excepted quantity: E1

Air transport (ICAO)**14.1. UN number:** UN 1974**14.2. UN proper shipping name:** CHLORODIFLUOROBROMOMETHANE (REFRIGERANT GAS R 12B1)**14.3. Transport hazard class(es):** 2.2**14.4. Packing group:** -

Hazard label: 2.2



Limited quantity Passenger: -

IATA-packing instructions - Passenger: 200

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 200

IATA-max. quantity - Cargo: 150 kg

Other applicable information (air transport)

Excepted quantity: E1

Passenger-LQ: -

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

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

not applicable

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): 100 %

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Abbreviations and acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant R-phrases (Number and full text)

59 Dangerous for the ozone layer.

Relevant H- and EUH-phrases (Number and full text)

H280 Contains gas under pressure; may explode if heated.

H420 Harms public health and the environment by destroying ozone in the upper atmosphere.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.