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Printing date 05.08.2010 Revision: 05.08.2010

1 Identification of substance

Product details

Trade name 1-Bromocyclooctane

Stock number:

B24839, L03922

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG

Benzstrasse 3

D-76185 Karlsruhe / Germany

Informing department: **Emergency information:** Product safety department.

Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

Information pertaining to particular dangers for man and environment GHS label elements

void

Not applicable Void

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#) Identification number(s):

1-Bromocyclooctane (CAS# 1556-09-8): 100%

EINECS Number:

216-310-6

4 First aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

persist. Seek immediate medical advice Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After skin contact

Rinse opened eye for several minutes under running water. Then consult doctor.

After eye contact After swallowing

5 Fire fighting measures

Suitable extinguishing agents Special hazards caused by the material, its

products of combustion or flue gases:

Can be released in case of fire: Carbon monoxide and carbon dioxide Hydrogen bromide (HBr) Wear self-contained breathing apparatus.

Protective equipment:

Wear full protective suit.

Seek medical tréatment.

6 Accidental release measures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Person-related safety precautions:

Measures for environmental protection: Measures for cleaning/collecting:

Additional information:

Do not allow material to be released to the environment without proper governmental permits. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

7 Handling and storage

Handling Information for safe handling:

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.

Keep ignition sources away - Do not smoke.

Information about protection against explosions and fires:

Storage

Requirements to be met by storerooms and containers:

Information about storage in one common

storage facility:
Further information about storage

conditions:

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

Additional information about design of

technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require monitoring at the workplace: Additional information:

Not required. No data

Personal protective equipment General protective and hygienic measures

Breathing equipment: Protection of hands:

The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. 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.

Eye protection: Body protection: Safety glasses Protective work clothing.

9 Physical and chemical properties:

General Information Form:

Material of gloves

Liauid

Smell: Not determined

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Safety Data Sheet according to 1907/2006/EC, Article 31

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Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 102-103°C (18mm Hg)

Not determined

Flash point: Not determined Ignition temperature: Not determined **Decomposition temperature:** Not determined

Danger of explosion: Product is not explosive

Critical values for explosion:

Not determined Upper: Not determined Steam pressure: Not determined Density Not determined

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided:

Dangerous reactions:
Dangerous products of decomposition:

No decomposition if used and stored according to specifications. Oxidizing agents
No dangerous reactions known

Carbon monoxide and carbon dioxide Hydrogen bromide

11 Toxicological information

Acute toxicity: Primary irritant effect:

on the skin: on the eye:

May cause irritation May cause irritation

Sensitization: Additional toxicological information:

No sensitizing effect known.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information:

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 bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation

Consult state, local or national regulations for proper disposal.

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:
None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: Marine pollutant:

None No

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:

None

Transport/Additional information:

Not dangerous according to the above specifications.

15 Regulatory information

Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

National regulations

Information about limitation of use: For use only by technically qualified individuals.

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

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Contact:
Abbreviations and acronyms:

Health, Safety and Environmental Department.

Zachariah Holt

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 RID: Règlement international oncernant 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

IATA: International Air Transport Association

IATA: International Air Transport Association

IATA: PoBR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO: International Civil Aviation Organization

ICAO: T: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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