E-mail: gcat@matthey.com

www.alfa-chemcat.com

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

Printing date 13.07.2010 Revision: 13.07.2010

1 Identification of substance

Product details

Trade name Water, deuterium depleted

Stock number:

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG Benzstrasse 3

D-76185 Karlsruhe / Germany

Product safety department.

Informing department: Emergency information:

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):

Water (CAS# 7732-18-5): 100%

EINECS Number: 231-791-2

4 First aid measures

General information No special measures required.

5 Fire fighting measures

Suitable extinguishing agents Protective equipment:

Use fire fighting measures that suit the environment. No special measures required.

6 Accidental release measures

Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting: Additional information:

Not required.

No special measures required.

No special measures required.
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

Handling Information for safe handling: Information about protection against explosions and fires:

No special measures required. No special measures required.

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.

Aqueous solutions are incompatible with alkali and alkaline earth metals and many reactive organic and inorganic

chemicals.

None

8 Exposure controls and personal protection

Additional information about design of

technical systems:

No further data; see item 7.

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

No data Personal protective equipment

General protective equipment
General protective and hygienic measures
Breathing equipment:
Protection of hands:
Eye protection:
Body protection:

The usual precautionary measures should be adhered to in handling the chemicals.

Not required.

1 g/cm³

Not required.

Safety glasses
Protective work clothing.

9 Physical and chemical properties:

General Information

Liquid Colourless Form: Colour: Odourless Smell:

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 0°C 100°C

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:

ower Not determined Upper: Not determined Steam pressure at 20°C: 23 hPa

10 Stability and reactivity

Density at 20°C

Thermal decomposition / conditions to be

avoided:

No decomposition if used and stored according to specifications.

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Trade name Water, deuterium depleted

(Contd. of page 1) Aqueous solutions are incompatible with alkali and alkaline earth metals and many reactive organic and inorganic

chemicals

Materials to be avoided: **Dangerous reactions:**

Reacts with certain metals Reacts with alkaline earth metals Reacts with alkaline metals

Dangerous products of decomposition:

Hydrogen Oxygen

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral LD50 >90 mL/kg (rat) LDLo 320 gm/kg (cat) 629 gm/kg (dog) 429 gm/kg (guinea pig)

368 gm/kg (rabbit) Primary irritant effect:

on the skin: on the eye: Sensitization: No irritant effect. No irritant effect

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:

void 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

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Uncleaned packagings: Recommendation:

None

No

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:

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:

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)

RD: Réglement international concernant 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-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO: International Civil Aviation Organization

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ENECS: European Inventory of Existing Commercial Chemical Substances

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

LC50: Lethal concentration, 50 percent

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