Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2013 Revision: 08 09 2008

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

2-Chloro-3,6-dibromopyridine Trade name Stock number 1.2 Relevant identified uses of the substance or mixture and uses advised against.

Identified use:

SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

Informing department:

1.4 Emergency telephone number:

www.alfa.com
Product safety Tel + +049 (0) 7275 988687-0
Call Carechem 24 at +44 (0) 1865 407333
Carechem 24: +44 (0) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

[GHS07

Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful

R22: Harmful if swallowed.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.
Information concerning particular hazards
for human and environment: Not applica
Other hazards that do not result in

Not applicable

classification

No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms Signal word Hazard statements

GHS07
Warning
H302 Harmful if swallowed.
H315 Causes skin irritation.

Precautionary statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
Store locked up.

Store locked up.
Dispose of contents/container in accordance with local/regional/national/international P501

2.3 Other hazards Results of PBT and vPvB assessment

PBT: vPvB:

Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 2-Chloro-3,6-dibromopyridine

SECTION 4: First aid measures

4.1 Description of 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

After eye contact After swallowing

4.2 Most important symptoms and effects, both acute and delayed
4.3 Indication of any immediate medical attention and special treatment needed

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

No further relevant information available No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture

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

If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCl)

Hydrogen bromide (HBr)

5.3 Advice for firefighters Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions:

Wear protective equipment. Keep unprotected persons away.

Do not allow product to reach sewage system or water bodies.

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

Do not allow to enter the ground/soil.

6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevention of secondary hazards: 6.4 Reference to other sections

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against

explosions and fires:

No information known.

7.2 Conditions for safe storage, including any incompatibilities Storage
Requirements to be met by storerooms and

containers: Information about storage in one common

storage facility: Further information about storage

conditions:

7.3 Specific end use(s)

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. No further relevant information available.

SECTION 8: Exposure controls/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.

8.1 Control parameters
Components with critical values that require

monitoring at the workplace: Additional information:

8.2 Exposure controls

Personal protective equipment General protective and hygienic measures

Breathing equipment: Protection of hands:

Not determined

Not required. No data

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.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
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.
Impervious gloves

Impervious gloves

Material of gloves Penetration time of glove material

Eye protection:

Safety glasses
Face protection
Protective work clothing.

Powder

Body protection:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Form: Colour: Smell: Odour threshold:

Cream coloured Not determined Not determined pH-value: Not applicable.

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 84-86 °C Not determined Not determined

Not applicable Not determined Flash point Inflammability (solid, gaseous) Ignition temperature:
Decomposition temperature: Not determined Not determined Self-inflammability: Not determined.

Danger of explosion: Critical values for explosion:

Lower: Upper: Steam pressure: Density Relative density

Product is not explosive.

Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.

Evaporation rate Solubility in / Miscibility with

Vapour density

kinematic:

Water: Partition coefficient (n-octanol/water): Viscosity: dvnamic:

Not determined Not determined. Not applicable. Not applicable.

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(Contd. of page 2) 9.2 Other information No further relevant information available

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be

10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

10.6 Hazardous decomposition products:

No information known.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications.

No dangerous reactions known Oxidizing agents

Oxidizing agents
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen chloride (HCI)
Hydrogen bromide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for classification:

Skin irritation or corrosion:

Eye irritation or corrosion: Sensitization:

Germ cell mutagenicity: Carcinogenicity:

Reproductive toxicity: Specific target organ system toxicity -

repeated exposure: Specific target organ system toxicity - single

exposure:

Additional toxicological information:

Aspiration hazard:

Harmful if swallowed. No data

Causes skin irritation.
Causes serious eye irritation.
No sensitizing effect known.
No effects known.
No effects known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA

or ACGIH. No effects known.

No effects known. May cause respiratory irritation.

No effects known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12: Ecological information

12.1 Toxicity

12.1 TOXICITY
Aquatic toxicity:
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
Additional ecological information: No further relevant information available

General notes:

No further relevant information available. No further relevant information available. No further relevant information available.

Do not allow material to be released to the environment without proper governmental permits. 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.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment PBT:

vPvB:

12.6 Other adverse effects

Not applicable.

Not applicable. No further relevant information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

None

None

None

Not applicable.

Not applicable

Not applicable.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

ADR, IMDG, IATA

UN-Number

14.2 UN proper shipping name ADR, IMDG, IATA

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

Packing group ADR, IMDG, IATA None

14.5 Environmental hazards:

14.6 Special precautions for user

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

Not dangerous according to the above specifications. Transport/Additional information:

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical

Substances Standard for the Uniform Scheduling of

Drugs and Poisons

Substance is not listed. Substance is not listed.

National regulations Information about limitation of use:

For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Water hazard class 1 (Self-assessment): slightly hazardous for water.

Water hazard class: Other regulations, limitations and prohibitive regulations

ELINCS (European List of Notified Chemical Substances)

Substances of very high concern (SVHC) according to REACH, Article 57

Substance is not listed.

Substance is not listed.

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REACH - Pre-registered substances 15.2 Chemical safety assessment: Substance is not listed. A Chemical Safety Assessment has not been carried out. (Contd. of page 3)

SECTION 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:
Abbreviations and acronyms:

Health, Safety and Environmental Department.
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAC: International Civil Aviation Organization
ICAC-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAC)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent

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