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

Printing date 01.07.2013 Revision: 13.04.2009

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

1.1 Product identifier

1.1 Product identified
Trade name
Stock number:
CAS Number:
1899-24-7
1.2 Relevant identified uses of the substance or mixture and uses advised against.
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 www.alfa.com

Informing department:

www.ana.com
Product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240 1.4 Emergency telephone number:

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. H319 Causes serious eye irritation. Eye Irrit. 2 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: R36/37/38: Irritating to eyes, respiratory system and skin. Information concerning particular hazards

for human and environment: 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

Hazard pictograms Signal word

Hazard statements

The Substantial GHS07
Warning
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H319 Cause respiratory irritation.
H319 Cause respiratory irritation.

Precautionary statements

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

H319 Gauses 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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Other hazards Results of PBT and vPvB assessment

PRT Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS# Designation: 1899-24-7 5-Bromo-2-furaldehyde Additional information: Stabilized with: Ethanol (CAS# 64-17-5)

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

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

After eye contact After swallowing 4.2 Most important symptoms and effects, Seek medical tréatment.

both acute and delayed
4.3 Indication of any immediate medical
attention and special treatment needed

No further relevant information available

SECTION 5: Firefighting measures

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

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

If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

No further relevant information available

Hydrogen bromide (HBr)

5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus.

Wear full protective suit.

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6.2 Environmental precautions:

(Contd. of page 1)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

No information known.

No special requirements.

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:

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:

Store away from oxidizing agents.

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

7.3 Specific end use(s)

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:

Not required. No data

8.2 Exposure controls

Personal protective equipment General protective and hygienic measures

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

Breathing equipment: Protection of hands:

Impervious gloves

Material of gloves Penetration time of glove material

Eye protection:

Not determined Safety glasses
Face protection
Protective work clothing.

Body protection:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information

Appearance: Form: Smell: Odour threshold:

Solid in various forms: Not determined Not determined

Not applicable.

pH-value:

Change in condition

82-85 °C 111-113 °C (16mm Hg)

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:

Not determined Not applicable

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

Danger of explosion:

Critical values for explosion: Lower:

Upper: Steam pressure: Density Relative density
Vapour density
Evaporation rate
Solubility in / Miscibility with Product is not explosive. Not determined

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

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

Viscosity: dynamic: kinematic: Not determined. Not applicable. Not applicable.

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Trade name 5-Bromo-2-furaldehyde

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

Carbon monoxide and carbon dioxide Hydrogen bromide

Harmful if swallowed.

No effects known.

or ACGIH. No effects known.

No effects known.

Causes skin irritation.
Causes serious eye irritation.
No sensitizing effect known.

No data

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:

Aspiration hazard:

Additional toxicological information:

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

Aquatic toxicity: 12.2 Persistence and degradability

12.3 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
Additional ecological information:
General notes:

No further relevant information available. 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.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA

12.5 Results of PBT and vPvB assessment PBT:

SECTION 13: Disposal considerations

vPvB: 12.6 Other adverse effects

13.1 Waste treatment methods

Not applicable. No further relevant information available

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.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

Not applicable.

SECTION 14: Transport information

ADR, IMDG, IATA

14.2 UN proper shipping name ADR, IMDG, IATA

14.3 Transport hazard class(es)

ADR, IMDG, IATA

UN-Number

Recommendation

Class

Packing group ADR, IMDG, IATA

14.5 Environmental hazards:

Water hazard class:

14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport/Additional information:

None

None

None

None

Not applicable.

Not applicable.

Not applicable.

Not dangerous according to the above specifications.

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 National regulations

Substance is not listed. Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals. Employment réstrictions concerning young persons must be observed.

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

Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical

Substances)

Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances

Substance is not listed.

Substance is not listed.

Substance is not listed.

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15.2 Chemical safety assessment: 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: Règlement 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)

ICAO: International Civil Aviation Organization

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

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDC: International Maritime Code for 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)

LO50: Lethal concentration, 50 percent

DE/E —

DE/E