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

Printing date 01.07.2013 Revision: 22.02.2007

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

1.1 Product identifier

**2-Hydroxybenzothiazole** A16648 934-34-9 213-281-1

Trade name Stock number: CAS Number:

EC number: 213-281-1

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

S1124 Scientific research and developr 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 Zeppelinsti. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

Informing department:

www.alfa.com
www.alfa.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

Skin Irrit. 2 H315 Causes skin irritation. Eve 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

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

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

GHS07
Warning
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Avoid breathing di Hazard pictograms Signal word Hazard statements

Precautionary statements

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.

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

regulations.

.3 Other hazards

Results of PBT and vPvB assessment PBT:

Not applicable. Not applicable. vPvB:

## SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: Identification number(s): EC number:

934-34-9 2-Hydroxybenzothiazole

213-281-1

## 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. After skin contact

Instantly wash with water and soap and rinse thoroughly.

After eye contact After swallowing Seek immediate medical advice.
Rinse opened eye for several minutes under running water. Then consult doctor.

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

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) Sulphur oxides (SOx)

Seek medical treatment.

5.3 Advice for firefighters Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

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Do not allow material to be released to the environment without proper governmental permits. 6.2 Environmental precautions:

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:
Prevention of secondary hazards: 6.4 Reference to other sections

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

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

No information known.

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.

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

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. 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 aloves

Material of gloves Penetration time of glove material

Eye protection: **Body protection:** 

Not determined Safety glasses Face protection Protective work clothing.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Smell:

Powder Not determined Not determined Not applicable.

Odour threshold: pH-value:

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start:

138-140 °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:

Product is not explosive.

Upper: Steam pressure: Density Relative density Vapour density Evaporation rate

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

Solubility in / Miscibility with Water:
Partition coefficient (n-octanol/water):

Viscosity:

Insoluble Not determined.

dynamic: kinematic

Not applicable. Not applicable. No further relevant information available. 9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability

Thermal decomposition / conditions to be

No information known.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications.

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10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products:

No dangerous reactions known

Oxidizing agents
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Sulphur oxides (SOx)

No effects known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for

classification: Skin irritation or corrosion: No data Causes skin irritation. Eye irritation or corrosion: Sensitization: Causes serious eye irritation. No sensitizing effect known.

Germ cell mutagenicity: Carcinogenicity:

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.

Reproductive toxicity:

Specific target organ system toxicity -repeated exposure: Specific target organ system toxicity - single No effects known.

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: No further relevant information available. 12.2 Persistence and degradability 12.3 Bioaccumulative potential No further relevant information available. No further relevant information available. .4 Mobility in soil No further relevant information available.

Additional ecological information: General notes:

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

Generally not hazardous for water.
Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment PBT:

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

Uncleaned packagings: Recommendation

Disposal must be made according to official regulations.

SECTION 14: Transport information **UN-Number** 

ADR, IMDG, IATA

14.2 UN proper shipping name ADR, IMDG, IATA

14.3 Transport hazard class(es)

ADR, IMDG, IATA Class

None

Packing group ADR, IMDG, IATA

None

14.5 Environmental hazards: Not applicable Not applicable

14.6 Special precautions for user

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

Not applicable.

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

Generally not hazardous for water.

**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

Substance is listed.

Substance is not listed.

Drugs and Poisons National regulations Information about limitation of use:

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

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
REACH - Pre-registered substances
Substance is Substance is Substance is Substance is Substance is A Chemical Safety assessment:

15.2 Chemical safety assessment:

Substance is not listed.

Substance is not listed. Substance is listed.

A Chemical Safety Assessment has not been carried out.

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: Health, Safety and Environmental Department.

Abbreviations and acronyms:

Health, Safety and Environmental Department.

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

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DE/E

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Trade name 2-Hydroxybenzothiazole (Contd. of page 3) 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent