

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.03.2011

Revision: 16.03.2011

**1 Identification of the substance/mixture and of the company/undertaking**

Product identifier  
 Trade name **(R)-2-Methyl-CBS-oxazaborolidine monohydrate**  
 Stock number: L09230  
 Relevant identified uses of the substance or mixture and uses advised against  
 Sector of Use SU24 Scientific research and development  
 Details of the supplier of the safety data sheet  
 Manufacturer/Supplier: Alfa Aesar GmbH & Co.KG  
 Benzstrasse 3  
 D-76185 Karlsruhe / Germany  
 Informing department: Product safety department.  
 Emergency telephone number: Giftnotruf Universität Mainz / Poison Information Center Mainz  
 www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240

E-mail: gcat@matthey.com  
 www.alfa-chemcat.com

**2 Hazards identification**

Classification of the substance or mixture  
 Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.  
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable  
 Information concerning particular hazards for human and environment: Not applicable  
 Label elements  
 Labelling according to Regulation (EC) No 1272/2008 Not applicable  
 Hazard pictograms Not applicable  
 Signal word Not applicable  
 Hazard statements Not applicable  
 Other hazards  
 Results of PBT and vPvB assessment  
 PBT: Not applicable.  
 vPvB: Not applicable.

**3 Composition/information on ingredients**

Chemical characterization: Substances  
 (CAS#) Designation: (R)-2-Methyl-CBS-oxazaborolidine monohydrate

**4 First aid measures**

Description of first aid measures  
 After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
 After skin contact Seek immediate medical advice.  
 Instantly wash with water and soap and rinse thoroughly.  
 After eye contact Seek immediate medical advice.  
 After swallowing Rinse opened eye for several minutes under running water. Then consult doctor.  
 Information for doctor Seek medical treatment.  
 Most important symptoms and effects, both acute and delayed  
 Indication of any immediate medical attention and special treatment needed No further relevant information available.

**5 Firefighting measures**

Extinguishing media  
 Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.  
 Special hazards arising from the substance or mixture  
 Can be released in case of fire:  
 Carbon monoxide and carbon dioxide  
 Nitrogen oxides (NOx)  
 Boron oxide  
 Possibly Hydrogen cyanide (HCN)  
 Advice for firefighters  
 Protective equipment: Wear self-contained breathing apparatus.  
 Wear full protective suit.

**6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.  
 Ensure adequate ventilation  
 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.  
 Methods and material for containment and cleaning up: Collect mechanically.  
 Reference to other sections 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  
 Precautions for safe handling Keep containers tightly sealed.  
 Store in cool, dry place in tightly closed containers.  
 Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.  
 Conditions for safe storage, including any incompatibilities  
 Storage  
 Requirements to be met by storerooms and containers: No special requirements.  
 Information about storage in one common storage facility: Store away from oxidizing agents.  
 Further information about storage conditions: Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed containers.  
 Specific end use(s) No further relevant information available.

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## 8 Exposure controls/personal protection

<b>Additional information about design of technical systems:</b>	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
<b>Control parameters</b>	
<b>Components with critical values that require monitoring at the workplace:</b>	Not required.
<b>Additional information:</b>	No data
<b>Exposure controls</b>	
<b>Personal protective equipment</b>	
<b>General protective and hygienic measures</b>	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.
<b>Breathing equipment:</b>	Check protective gloves prior to each use for their proper condition.
<b>Protection of hands:</b>	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.
<b>Material of gloves</b>	Impervious gloves
<b>Penetration time of glove material</b>	Not determined
<b>Eye protection:</b>	Safety glasses
<b>Body protection:</b>	Protective work clothing.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Solid.
<b>Colour:</b>	Not determined.
<b>Smell:</b>	Not determined
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not applicable.

#### Change in condition

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined
<b>Sublimation temperature / start:</b>	Not determined

**Inflammability (solid, gaseous)** Not determined.

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Self-inflammability:** Not determined.

**Danger of explosion:** Product is not explosive.

#### Critical values for explosion:

<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined

**Steam pressure:** Not applicable.

<b>Density</b>	Not determined
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.

**Segregation coefficient (n-octanol/water):** Not determined.

#### Viscosity:

<b>dynamic:</b>	Not applicable.
<b>kinematic:</b>	Not applicable.
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

#### Reactivity

#### Chemical stability

#### Thermal decomposition / conditions to be avoided:

#### Possibility of hazardous reactions

#### Incompatible materials:

#### Hazardous decomposition products:

No decomposition if used and stored according to specifications.  
No dangerous reactions known  
Oxidizing agents  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)  
Boron oxide  
Possibly Hydrogen cyanide (HCN)

## 11 Toxicological information

#### Information on toxicological effects

#### Acute toxicity:

#### Primary irritant effect:

#### on the skin:

#### on the eye:

#### Sensitization:

#### Additional toxicological information:

May cause irritation  
May cause irritation  
No sensitizing effect known.  
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  
EPA-I: Data are inadequate for an assessment of human carcinogenic potential.

## 12 Ecological information

#### Toxicity

#### Aquatic toxicity:

#### Persistence and degradability

#### Behaviour in environmental systems:

#### Bioaccumulative potential

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

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<b>Results of PBT and vPvB assessment</b>	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.	
<b>PBT:</b>	Not applicable.	
<b>vPvB:</b>	Not applicable.	
<b>Other adverse effects</b>	No further relevant information available.	

**13 Disposal considerations**

<b>Waste treatment methods</b>	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.
<b>Recommendation</b>	
<b>Uncleaned packagings:</b>	Disposal must be made according to official regulations.
<b>Recommendation:</b>	

**14 Transport information**

<b>Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)</b>	
<b>ADR/RID-GGVS/E Class:</b>	None
<b>Maritime transport IMDG/GGVSea:</b>	
<b>IMDG/GGVSea Class:</b>	None
<b>Marine pollutant:</b>	No
<b>Air transport ICAO-TI and IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	None
<b>Special precautions for user</b>	Not applicable.
<b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

**15 Regulatory information**

<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>Labelling according to Regulation (EC) No 1272/2008</b>	
<b>Hazard pictograms</b>	Not applicable
<b>Signal word</b>	Not applicable
<b>Hazard statements</b>	Not applicable
<b>National regulations</b>	
<b>Information about limitation of use:</b>	For use only by technically qualified individuals.
<b>Water hazard class:</b>	Water hazard class 1 (Self-assessment): slightly hazardous for water.
<b>Chemical safety assessment:</b>	A Chemical Safety Assessment has not been carried out.

**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.	
<b>Department issuing data specification sheet:</b>	Health, Safety and Environmental Department.
<b>Contact:</b>	Zachariah C. Holt Global EHS Manager
<b>Abbreviations and acronyms:</b>	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 Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association 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) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)