Printing date 02.07.2013 Revision: 18.06.2008

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

1.1 Product identifier

**4-Ethoxypiperidine hydrochloride** H51028 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

www.alfa.com

Informing department:

www.arra.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



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

🗶 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin. Information concerning particular hazards Not applicable

for human and environment: Other hazards that do not result in classification

No information known.

Hazard statements

2.2 Label elements
Labelling according to Regulation (EC) No
1272/2008

Hazard pictograms Signal word

GHS07 Warning

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements

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

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).
P405 Store locked up.
P501 Dispose of contents/contains in the contents of the c Dispose of contents/container in accordance with local/regional/national/international regulations. P501

2.3 Other hazards Results of PBT and vPvB assessment

vPvB:

Not applicable. Not applicable.

#### SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 4-Ethoxypiperidine hydrochloride

### SECTION 4: First aid measures

4.1 Description of first aid measures

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.

Seek medical treatment.

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

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 (HCI)

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

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.

.3 Methods and material for containment

and cleaning up:

Ensure adequate ventilation.

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Prevention of secondary hazards: 6.4 Reference to other sections

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.

No special requirements.

Store away from oxidizing agents.

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 No information known. explosions and fires: 7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers:

Information about storage in one common storage facility:

Further information about storage

conditions:

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:

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:

Not required.

No data

Impervious gloves Not determined

Material of gloves Penetration time of glove material Eye protection:

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: Colour: Solid. Grey Not determined Smell:

Odour threshold: Not determined pH-value: Not applicable.

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined 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: Product is not explosive.

Not determined Not determined Lower: Upper: Steam pressure: Density Not applicable. Not determined Relative density Not determined. Vapour density Evaporation rate Solubility in / Miscibility with Not applicable. Not applicable.

Water: Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable.

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

SECTION 10: Stability and reactivity

10.1 Reactivity
10.2 Chemical stability

Thermal decomposition / conditions to be

avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Oxidizing agents Carbon monoxide and carbon dioxide

No information known. Stable under recommended storage conditions. No decomposition if used and stored according to specifications. No dangerous reactions known

Not determined

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Trade name 4-Ethoxypiperidine hydrochloride

Nitrogen oxides (NOx) Hydrogen chloride (HCl)

No effects known.

Causes skin irritation.

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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:

Reproductive toxicity:

Sensitization: Germ cell mutagenicity: Carcinogenicity:

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

Specific target organ system toxicity repeated exposure:

Specific target organ system toxicity - single

exposure: Aspiration hazard:

Additional toxicological information:

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.

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.

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:

12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil

Additional ecological information: General notes:

12.5 Results of PBT and vPvB assessment PBT: vPvB:

12.6 Other adverse effects

Not applicable.

Not applicable. No further relevant information available.

No further relevant information available.

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

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

Packing group ADR, IMDG, IATA

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

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 Substance is not listed.

Standard for the Uniform Scheduling of Drugs and Poisons

National regulations Information about limitation of use: Substance is not listed.

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 REACH - Pre-registered substances 15.2 Chemical safety assessment:

Substance is not listed.

Substance is not listed.

Substance is not 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.

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization

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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)
IMDG: 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

DE/E