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Printing date 13.08.2010 Revision: 13.08.2010

1 Identification of substance

Product details

Trade name 4-[2-(4-Morpholinyl)ethoxy]aniline

Stock number:

Alfa Aesar GmbH & Co.KG Manufacturer/Supplier:

Benzstrasse 3 D-76185 Karlsruhe / Germany

Informing department: Emergency information:

Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

Xn Harmful

Information pertaining to particular dangers

for man and environment

GHS label elements

Prevention:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 36/38 Irritating to eyes and skin.

Warning

H302 - Harmful if swallowed. H312 - Harmful in contact with skin. H332 - Harmful if inhaled. H315 - Causes skin irreduction.

Response:

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal:

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#)

4-[2-(4-Morpholinyl)ethoxy]aniline (CAS# 52481-41-1)

4 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.

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

After eye contact After swallowing Seek immediate medical advice.

5 Fire fighting measures

Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:

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

Can be released in case of fire: Carbon he released in case of life.
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Possibly Hydrogen cyanide (HCN)
Wear self-contained breathing apparatus.
Woos full protective suit

Protective equipment:

6 Accidental release measures

Person-related safety precautions:

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

Wear full protective suit.

Measures for environmental protection: Measures for cleaning/collecting:

Do not allow material to be released to the environment without proper governmental permits. Dispose of contaminated material as waste according to item 13.

Additional information:

Ensure adequate ventilation.

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 Information for safe handling:

Handle under dry protective gas.

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:

Keep ignition sources away - Do not smoke.

Storage Requirements to be met by storerooms and containers:

Information about storage in one common storage facility:

No special requirements.

Store away from air. Store away from oxidizing agents.

Further information about storage

conditions:

Store under dry inert gas.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. This product is air sensitive.

8 Exposure controls and 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.

Components with critical values that require monitoring at the workplace:

Not required.

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Safety Data Sheet according to 1907/2006/EC, Article 31

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Additional information:

Breathing equipment: Protection of hands: Material of gloves

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.

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

Penetration time of glove material Eye protection: Not determined Safety glasses
Face protection
Protective work clothing.

No data

Body protection:

9 Physical and chemical properties:

General Information Solid. White Form: Colour: Smell:

Not determined

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Ignition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion:

Decomposition temperature:

_ower: Not determined Upper: Not determined Steam pressure: Not determined Density Not determined

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided:

No decomposition if used and stored according to specifications.

Not determined

Air Oxidizing agents

Dangerous reactions: Dangerous products of decomposition:

No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)

Irritant for skin and mucous membranes.

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization:

Additional toxicological information:

No sensitizing effect known.

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

Danger by skin resorption.

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

12 Ecological information:

Additional ecological information: General notes:

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.

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

13 Disposal considerations

Product:

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.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: 6.1 (T2) Toxic substances.

Kemler Number: UN-Number: Packaging group:

0.1 (12) TOXIC SUBSTAIRCS.
60
2811
III
6.1
2811 TOXIC SOLID, ORGANIC, N.O.S. (4-[2-(4-Morpholinyl)ethoxy]aniline) Label
Designation of goods:
Limited quantities (LQ)
Transport category

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Tunnel restriction code Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 6.1 2811 UN Number: 6.1 III Label Packaging group: Marine pollutant: Correct technical name:

No TOXIC SOLID, ORGANIC, N.O.S. (4-[2-(4-Morpholinyl)ethoxy]aniline)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: UN/ID Number: 2811 6.1 Label

Packaging group: Correct technical name: TOXIC SOLID, ORGANIC, N.O.S. (4-[2-(4-Morpholinyl)ethoxy]aniline)

UN "Model Regulation": UN2811, TOXIC SOLID, ORGANIC, N.O.S., 6.1, III

Ε

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

Xn Harmful

/22 Harmful by inhalation, in contact with skin and if swallowed.Irritating to eyes and skin. Risk phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37 Wear suitable protective clothing and gloves. Safety phrases:

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

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.

Zachariah Holt

Abbreviations and acronyms:

Beginner of the conformance with this Material Safety Data Sneet, or in combination with any other product of process, is the responsible to the conformance of process, is the responsible to the conformance of process, is the responsible to the responsible to the responsibility of the conformance of process, is the responsibility of the responsib