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Printing date 21.07.2010 Revision: 21.07.2010

1 Identification of substance

Product details

Trade name 2-Methoxyphenyl isocyanate

Stock number:

A18075, L10214

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG

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

R 20/22 Harmful by inhalation and if swallowed. R 36/37/38 Irritating to eyes, respiratory system and skin. R 42 May cause sensitisation by inhalation.

GHS label elements

Danger

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Warning

H302 - Harmful if swallowed. H332 - Harmful if inhaled. H335 - May cause respiratory irritation.

Prevention: Response:

Storage:

Warning
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H319 - Causes serious eye irritation.
P285 In case of inadequate ventilation wear respiratory 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).

Store locked up. Disposal:

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#) Identification number(s):

2-Methoxyphenyl isocyanate (CAS# 700-87-8): 100%

EINECS Number: 211-853-5

4 First aid measures

After skin contact

General information

After inhalation

Instantly remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. 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 eye contact After swallowing Rinse opened eye for several minutes under running water. Then consult doctor. Do not induce vomiting; instantly call for medical help. Seek immediate medical advice.

5 Fire fighting measures

Protective equipment:

Suitable extinguishing agents

For safety reasons unsuitable extinguishing

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

CO2, sand, extinguishing powder. Do not use water.

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

6 Accidental release measures

Person-related safety precautions:

Measures for environmental protection:

Measures for cleaning/collecting:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not allow material to be released to the environment without proper governmental permits.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
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.

Additional information:

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.

Requirements to be met by storerooms and

containers: Information about storage in one common

storage facility:

No special requirements.

Store away from water

(Contd. on page 2)

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

Printing date 21.07.2010 Revision: 21.07.2010

Trade name 2-Methoxyphenyl isocyanate

Further information about storage

conditions:

Store away from oxidizing agents.

(Contd. of page 1)

Store under dry inert gas. This product is moisture sensitive.

Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
Store in a locked cabinet or with access restricted to technical experts or their assistants.

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: Additional information:

Not required. No data

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. Safety glasses

Breathing equipment: Protection of hands: Material of gloves

Eve protection:

Body protection:

Safety glasses Face protection

Protective work clothing.

9 Physical and chemical properties:

General	Information

I iauid Form: Colourless Pungent Colour: Smell:

Change in condition

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

Not determined 94-96°C (10mm Hg) Not determined

> 110°C

Ignition temperature: Not determined Decomposition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion: Lower:

Upper: Steam pressure: Density at 20°C

Not determined Not determined Not determined

1.122 g/cm³ Hydrolyzes

Solubility in / Miscibility with Water:

10 Stability and reactivity

Thermal decomposition / conditions to be

Materials to be avoided:

No decomposition if used and stored according to specifications.

Water/moisture Alcohols

Dangerous reactions: Dangerous products of decomposition:

Alconols
Amines
Oxidizing agents
Isocyanates may react exothermically with NH, OH or SH groups
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (prussic acid)

11 Toxicological information

Sensitisation

Acute toxicity: Primary irritant effect: on the skin:

Irritant for skin and mucous membranes. Irritant effect.

on the eye:

Sensitization: Additional toxicological information:

Irritant effect.
Lachrymatory effect.
Sensitization possible by inhalation.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

May cause sensitisation by inhalation.

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

Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.

(Contd. on page 3)

(Contd. of page 2)

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

Printing date 21.07.2010 Revision: 21.07.2010

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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: Kemler Number: 6.1 (T1) Toxic substances. 60

UN-Number: Packaging group: Label

60 2206 III 6.1 2206 ISOCYANATES, TOXIC, N.O.S. (2-Methoxyphenyl isocyanate)

Designation of goods: Limited quantities (LQ) Transport category LQ7 2 E Tunnel restriction code

Maritime transport IMDG/GGVSea:

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

ISOCYANATES, TOXIC, N.O.S. (2-Methoxyphenyl isocyanate)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: UN/ID Number: 6.1 2206

Packaging group: Correct technical name: isocyanates, Toxic, N.O.S. (2-Methoxyphenyl isocyanate)

UN "Model Regulation": UN2206, ISOCYANATES, TOXIC, N.O.S., 6.1, III

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of

product:

Xn Harmful

20/22 Harmful by inhalation and if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin. 42 May cause sensitisation by inhalation. Risk phrases:

Safety phrases:

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37 Wear suitable protective clothing and gloves.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

National regulations

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. Information about limitation of use:

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:
Contact:
Abbreviations and acronyms:

Health, Safety and Environmental Department.
Zachariah Holt
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Apperous Goods by Rail)
INDG: International Concernant le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rail)
INDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of 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
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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