

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 22.08.2010

Revision: 22.08.2010

**1 Identification of substance****Product details****Trade name****2-Ethoxyphenyl isocyanate****Stock number:**

L11299

**Manufacturer/Supplier:**Alfa Aesar GmbH & Co.KG  
Benzstrasse 3  
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com  
www.alfa-chemcat.com**Informing department:**

Product safety department.

**Emergency information:**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.**Warning**H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.**Prevention:****Response:**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).**Storage:****Disposal:**P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.**3 Composition/information on ingredients****Chemical characterization:****Designation: (CAS#)**

2-Ethoxyphenyl isocyanate (CAS# 5395-71-1): 100%

**4 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.  
Rinse opened eye for several minutes under running water. Then consult doctor.**After swallowing**

Seek immediate medical advice.

**5 Fire fighting measures****Suitable extinguishing agents**

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

**For safety reasons unsuitable extinguishing agents**

Water.

**Special hazards caused by the material, its products of combustion or flue gases:**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.**Protective equipment:****6 Accidental release measures****Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:**

Ensure adequate ventilation

**Measures for cleaning/collecting:**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.**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.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

**Storage****Requirements to be met by storerooms and containers:**

Refrigerate

**Information about storage in one common storage facility:**Protect from heat.  
Store away from water.  
Store away from oxidizing agents.**Further information about storage conditions:**Store under dry inert gas.  
This product is moisture sensitive.(Contd. on page 2)  
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Keep container tightly sealed.  
Protect from humidity and keep away from water.  
Refrigerate

**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.  
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.

**Breathing equipment:****Protection of hands:****Material of gloves**

Impervious gloves  
Not determined  
Safety glasses  
Face protection  
Protective work clothing.

**Penetration time of glove material****Eye protection:****Body protection:****9 Physical and chemical properties:****General Information**

**Form:** Liquid  
**Colour:** Colourless  
**Smell:** Pungent

**Change in condition****Melting point/Melting range:** Not determined**Boiling point/Boiling range:** 119-120°C**Sublimation temperature / start:** Not determined**Flash point:** 102°C (20mm Hg)**Ignition temperature:** Not determined**Decomposition temperature:** Not determined**Danger of explosion:** Product is not explosive.**Critical values for explosion:****Lower:** Not determined**Upper:** Not determined**Steam pressure:** Not determined**Density at 20°C** 1.105 g/cm<sup>3</sup>**Solubility in / Miscibility with Water:** Hydrolyzes**10 Stability and reactivity****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**Materials to be avoided:**

Heat  
Water/moisture  
Alcohols  
Amines  
Oxidizing agents  
No dangerous reactions known  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (prussic acid)

**Dangerous reactions:****Dangerous products of decomposition:****11 Toxicological information****Acute toxicity:****Primary irritant effect:****on the skin:****on the eye:****Sensitization:****Additional toxicological information:**

Irritant for skin and mucous membranes.

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.

**Sensitisation****12 Ecological information:****Additional ecological information:****General notes:**

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.

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## 14 Transport information

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



**ADR/RID-GGVS/E Class:** 6.1 (T1) Toxic substances.  
**Kemler Number:** 60  
**UN-Number:** 2206  
**Packaging group:** III  
**Label:** 6.1  
**Designation of goods:** 2206 ISOCYANATES, TOXIC, N.O.S. (2-Ethoxyphenyl isocyanate)  
**Limited quantities (LQ)** LQ7  
**Transport category** 2  
**Tunnel restriction code** E

Maritime transport IMDG/GGVSea:



**IMDG/GGVSea Class:** 6.1  
**UN Number:** 2206  
**Label:** 6.1  
**Packaging group:** III  
**EMS Number:** F-A, S-A  
**Marine pollutant:** No  
**Correct technical name:** ISOCYANATES, TOXIC, N.O.S. (2-Ethoxyphenyl isocyanate)

Air transport ICAO-TI and IATA-DGR:



**ICAO/IATA Class:** 6.1  
**UN/ID Number:** 2206  
**Label:** 6.1  
**Packaging group:** III  
**Correct technical name:** ISOCYANATES, TOXIC, N.O.S. (2-Ethoxyphenyl 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

Risk phrases:

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

Safety phrases:

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
 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.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Information about limitation of use:

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

## 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.

Contact: Zachariah Holt

Abbreviations and acronyms:

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)