	Safety Data Sheet	Page 1/3
Printing date 22.08.2010	according to 1907/2006/EC, Article 31	Revision: 22.08.2010
1 Identification of substance		
Product details		
Trade name Stock number:	2-Methoxy-5-methylphenyl isothiocyanate	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	
	Benzstrasse 3 D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	C Corrosive	
Information pertaining to particular dangers for man and environment	D 20/01/02 Hormful by inhelation, in contact with akin and if availanced	
GHS label elements	R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 34 Causes burns.	
GH3 label elements	Danger	
	H314 - Causes severe skin burns and eye damage.	
	Varning Varning	
	H302 - Harmful if swallowed. H312 - Harmful in contact with skin.	
Prevention:	H332 - Harmful if inhaled.	
Response:	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all cont	taminated clothing. Rinse skin
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes	
Storage:	P405 Store locked up.	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/	international regulations.
3 Composition/information on ingredients Chemical characterization:	5	
Designation: (CAS#)	2-Methoxy-5-methylphenyl isothiocyanate (CAS# 190774-56-2): 100%	
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. C	onsult doctor if symptoms
1 0 11 1 1	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	or.
After eye contact After swallowing	Seek immediate medical advice.	JI.
5 Fire fighting measures		
Suitable extinguishing agents For safety reasons unsuitable extinguishing	CO2, sand, extinguishing powder. Do not use water.	
agents Special hazards caused by the material, its	Water.	
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide	
	Sulphur oxides (SOx) Nitrogen oxides (NOx) Hydrogen cyanide (HCN)	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.	
Measures for environmental protection:	Ensure adequate ventilation Do not allow material to be released to the environment without proper govern	mental permits.
Measures for cleaning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal bin Dispose of contaminated material as waste according to item 13.	nders, sawdust).
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.	
Information about protection against	Ensure good ventilation/exhaustion at the workplace.	
explosions and fires: Storage	Keep ignition sources away - Do not smoke.	
Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common storage facility:	Store away from water.	
Further information about storage	Store awaý from oxidizing agents.	
conditions:	Store under dry inert gas. This product is moisture sensitive.	
	Keep container tightly sealed.	(Contd. on page 2)

Revision: 22.08.2010

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

rade name 2-Methoxy-5-methylphenyl is	sothiocyanate	
	Protect from humidity and keep away from water. (Con	td. of page
8 Exposure controls and personal protect	tion	
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average for at least 100 feet per minute.	ace veloci
Components with critical values that require monitoring at the workplace: Additional information:	e 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.	
Breathing equipment: Protection of hands: Material of gloves	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 and varies from manufacturer to manufacturer. Impervious gloves	of quality
Penetration time of glove material Eye protection: Rody protection:	Not determined Safety glasses Face protection	
Body protection:	Protective work clothing.	
9 Physical and chemical properties:		
General Information Form:	Liquid	
Colour: Smell:	Yellow Pungent	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 288°C Not determined	
Flash point:	> 110°C	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion:	Product is not explosive.	
Critical values for explosion: Lower: Upper:	Not determined Not determined	
Steam pressure:	Not determined	
Density at 20°C Solubility in / Miscibility with Water:	1.146 g/cm ³ Hydrolyzes	
10 Stability and reactivity		
Thermal decomposition / conditions to be avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Water/moisture Alcohols	
Dangerous reactions: Dangerous products of decomposition:	Amines Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid)	
11 Toxicological information		
Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Corrosive effect on skin and mucous membranes. Strong corrosive effect. 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. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, N or ACGIH.	
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 sewag Do not allow material to be released to the environment without proper governmental permits.	je system.
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.	
	consult state, iour or national regulations for proper disposal.	td. on paç

	according to 1907/2006/EC, Article 31		
rinting date 22.08.2010	Revision: 22.08.201		
rade name 2-Methoxy-5-methylphenyl isothiocyanate			
	(Contd. of page		
Uncleaned packagings: Recommendation:			
Recommendation:	Disposal must be made according to official regulations.		
Transport information			
Land transport ADR/RID and GGVS/GGVE (cr	ross-border/domestic)		
ADR/RID-GGVS/E Class:	8 (CT1) Corrosive substances.		
Kemler Number: UN-Number:	86 2922		
Packaging group: Label	III 8+6.1		
Designation of goods:	2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-Methoxy-5-methylphenyl isothiocyanate)		
Limited quantities (LQ) Transport category	LQ7 3		
Tunnel restriction code	Ě		
Maritime transport IMDG/GGVSea:			
$\langle \mathbf{r} \rangle$			
IMDG/GGVSea Class:	8		
UN Number: Label	2922 8+6.1		
Packaging group: EMS Number:			
EMS Number: Marine pollutant:	F-A,S-B No		
Correct technical name: Air transport ICAO-TI and IATA-DGR:	CORROSIVE LIQUID, TOXIC, N.O.S. (2-Methoxy-5-methylphenyl isothiocyanate)		
\Rightarrow	<u>^</u>		
ICAO/IATA Class: UN/ID Number:	8 2922		
Label Packaging group:	8+6.1 III		
Correct technical name:	CORROSIVE LIQUID, TOXIC, N.O.S. (2-Methoxy-5-methylphenyl isothiocyanate)		
UN "Model Regulation":	UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), III		
Demulatory information			
5 Regulatory information Designation according to EC guidelines:			
Code letter and hazard designation of			
product:	C Corrosive		
Risk phrases:	20/21/22 Harmful by inhalation, in contact with skin and if swallowed. 34 Causes burns.		
Safety phrases:	 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 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:	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.		
6 Other information: Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat	a supplement to other information gathered by them, and should make independent judgement of suitability of ct the health and safety of employees. This information is furnished without warranty, and any use of the prod ta 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: Abbreviations and acronyms:	Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangarouse Conde house Road)		
	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 Internation Transport of Dangerous Goods by Rail) IMDG: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)		
	IATA-International Air Transport Association IATA-INGR: Dancerous Goods Regulations by the "International Air Transport Association" (IATA)		

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)

GB