	Safety Data Sheet according to 1907/2006/EC, Article 31	Page 1/3
Printing date 23.08.2010	according to 1507/2000/20, Afficie ST	Revision: 23.08.2010
1 Identification of substance Product details		
Trade name	5-Acetylthiophene-2-carboxylic acid	
Stock number: Manufacturer/Supplier:	L13588 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	
2 Hazards identification		
Hazard designation:	Xi Irritant	
Information pertaining to particular dangers for man and environment	R 36/37/38 Irritating to eyes, respiratory system and skin.	
GHS label elements	Warning	
	H315 - Causes skin irritation. H319 - Causes serious eye irritation.	
Prevention:	H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water.	
Response:	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several present and easy to do. Continue rinsing.	minutes. Remove contact lenses, if
Storage:	P321 Specific treatment (see on this label). P405 Store locked up.	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/r	national/international regulations.
3 Composition/information on ingredient Chemical characterization:		
Designation: (CAS#) 4 First aid measures	5-Acetylthiophene-2-carboxylic acid (CAS# 4066-41-5): 100%	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient vo	warm. Consult doctor if symptoms
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
After eye contact After swallowing	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then cons Seek immediate medical advice.	ult doctor.
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet	or alcohol-resistant foam.
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide	
Protective equipment:	Sulphur oxides (SOx) Wear self-contained breathing apparatus. Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Measures for environmental protection: Measures for cleaning/collecting: Additional information:	Do not allow material to be released to the environment without proper Ensure adequate ventilation. See Section 7 for information on safe handling	governmental permits.
	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:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.	
Information about protection against	Store in cool, dry place in tightly closed containers. 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: Information about storage in one common	No special requirements.	
storage facility: Further information about storage	Store away from oxidizing agents.	
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
8 Exposure controls and personal protec Additional information about design of	tion	
technical systems:	Properly operating chemical fume hood designed for hazardous chemi- of at least 100 feet per minute.	cals and having an average face velocity
Components with critical values that require monitoring at the workplace: Additional information:	Not required. No data	
Personal protective equipment		e chemicals
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling th 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.	เร เมติแแนสเอ.
Breathing equipments	Avoid contact with the eyes and skin.	
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.	(Contd. on page 2)
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1 mining date 20.00.2010	Novision. 23.00.2010
Trade name 5-AcetyIthiophene-2-carbox	rylic acid
Material of gloves	(Contd. of page 1) 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
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour:	Powder Cream coloured Light brown
Smell: Change in condition	Not determined
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	210-212°C Not determined Not determined
Flash point:	Not applicable
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	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. Oxidizing agents
Dangerous reactions:	No dangerous reactions known
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide Sulphur oxides (SOx)
11 Toxicological information	
Acute toxicity: Primary irritant effect:	
on the skin:	Irritant for skin and mucous membranes.
on the eye: Sensitization: Additional toxicological information:	Irritant effect. No sensitizing effect known. 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.
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.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
Land transport ADR/RID and GGVS/GGVE ( ADR/RID-GGVS/E Class:	cross-border/domestic) None
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:	None
Marine pollutant: Air transport ICAO-TI and IATA-DGR:	No
ICAO/IATA Class:	None
Transport/Additional information:	Not dangerous according to the above specifications.
15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product:	
	Xi Irritant
Risk phrases:	36/37/38 Irritating to eyes, respiratory system and skin.
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves.
National regulations	
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. (Contd. on page 3)

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## Trade name 5-Acetylthiophene-2-carboxylic acid

	(Contd. of page 2)
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
16 Other information: Employers should use this information only as a this information to ensure proper use and prote not in conformance with this Material Safety Da	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 product ta 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     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 Maritime Code for Dangerous Goods     IATA: International Air Transport Association     IATA: International Civil Aviation Organization     ICAO: International Civil Aviation Organization     ICAO: T: 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