Printing date 02.07.2013	Revision: 20.06.2012	
SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier		
Trade name	Pyridine-3-sulfonyl chloride	
Stock number: CAS Number:	H54672	
1.2 Relevant identified uses of the substanc Identified use:	e or mixture and uses advised against. SU24 Scientific research and development	
1.3 Details of the supplier of the safety data Manufacturer/Supplier:	sheet Alfa Aesar GmbH & Co.KG	
Manufacture/Supplier.	A Johnson Matthey Company	
	Zeppelinstr. 7b 76185 Karlsrube / Germany	
	Tel: +49 (0) 721 84007 280	
	To185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com	
	www.alta.com	
Informing department: 1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)	
0 7 1	Poison Information Center Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240	
SECTION 2: Hazards identification		
2.1 Classification of the substance or mixture	re	
Classification according to Regulation (EC)	No 1272/2008	
GHS05 corrosion		
Skin Corr. 1B H314 Causes severe skin burns	s and eve damage	
Classification according to Directive 67/548/		
C; Corrosive		
R34: Causes burns.		
Information concerning particular hazards for human and environment:	Not applicable	
Other hazards that do not result in		
2.2 Label elements	No information known.	
Labelling according to Regulation (EC) No		
1272/2008 Hazard nictograms	The substance is classified and labelled according to the CLP regulation. GHS05	
Hazard pictograms Signal word	Danger	
Hazard statements Precautionary statements	H314 Causes severe skin burns and eye damage.	
Trecationary statements	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin	
	with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
	P405 Store locked up.	
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
2.3 Other hazards Results of PBT and vPvB assessment		
PBT:	Not applicable. Not applicable.	
vPvB:		
SECTION 3: Composition/information of 3.1 Substances	on ingredients	
CAS# Designation:	16133-25-8 Pyridine-3-sulfonyl chloride	
SECTION 4: First aid measures		
4.1 Description of first aid measures	the stand the second state of the second state of the second state	
General information After inhalation	Instantly remove any clothing soiled by the product. 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.	
After eye contact	Seek immediate medical advice.	
After swallowing	Seek medical treatment.	
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.	
4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.	
•		
SECTION 5: Firefighting measures 5.1 Extinguishing media		
Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.	
5.2 Special hazards arising from the substance or mixture	If this product is involved in a fire, the following can be released:	
	Carbon monoxide and carbon dioxide	
	Sulphur oxides (SOx) Nitrogen oxides (NOx) Hydrogen chloride (HCl)	
5.3 Advice for firefighters	Hydrogen chloride (HCI)	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
SECTION 6: Accidental release measures		
6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.	
	Ensure adequate ventilation	
6.2 Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies.	
	Do not allow to enter the ground/soil. (Contd. on page 2)	

(Contd. on page 2) DE/E

	according to 1907/2006/EC, Article 31
Printing date 02.07.2013	Revision: 20.06.2012
rade name <b>Pyridine-3-sulfonyl chloride</b>	
	(Contd. of page 1)
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13.
Prevention of secondary hazards: 6.4 Reference to other sections	Ensure adequate ventilation. No special measures required. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
SECTION 7: Handling and storage	
7.1 Precautions 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:	No information known.
7.2 Conditions for safe storage, including an	
Storage Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility:	Store away from water. Store away from oxidizing agents.
Further information about storage conditions:	Store under dry inert gas.
	This product is moisture sensitive. Keep container tightly sealed.
	Store in cool, dry conditions in well sealed containers.
7.3 Specific end use(s)	Protect from humidity and keep away from water. Store in a locked cabinet or with access restricted to technical experts or their assistants. No further relevant information available.
SECTION 8: Exposure controls/personal Additional information about design of	al protection
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity
8.1 Control parameters	of at leást 100 feét per minute.
Components with critical values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be manifered
	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: 8.2 Exposure controls	No data
Personal protective equipment	The versel preservice are should be adhered to in bondling the chemicals
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. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.
Breathing equipment: Protection of hands:	Maintain an ergonomically appropriate working environment. 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
Material of gloves Penetration time of glove material Eye protection:	and varies from manufacturer to manufacturer. Impervious gloves Not determined Tightly sealed safety glasses.
Body protection:	Full face protection
SECTION 9: Physical and chemical pro	
9.1 Information on basic physical and chemi General Information	
Appearance: Form:	Liquid
Colour: Smell:	Vellow Not determined
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined
Inflammability (solid, gaseous) Ignition temperature:	Not determined. Not determined
Decomposition temperature: Self-inflammability:	Not determined Not determined
Critical values for explosion: Lower:	Not determined
Upper:	Not determined
Steam pressure: Density	Not determined Not determined
Relative density Vapour density	Not determined. Not determined.
Evaporation rate Solubility in / Miscibility with	Not determined.
Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined.
dynamic: kinematic:	Not determined. Not determined.
	Contd. on page 3 DE/E

Revision: 20.06.2012

	Revision. 20.06.2012
Trade name <b>Pyridine-3-sulfonyl chloride</b>	(Contd. of page 2)
9.2 Other information	(Contd. of page 2) No further relevant information available.
SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	No information known. Stable under recommended storage conditions. No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents Water/moisture Oxidizing agents Carbon monoxide and carbon dioxide Sulphur oxides (SOX) Nitrogen oxides (NOX) Hydrogen chloride (HCI)
SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: Skin irritation or corrosion: Eye irritation or corrosion: Sonsitization:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No data Causes severe skin burns. Causes serious eye damage.
Sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure: Aspiration hazard:	No sensitizing efféct known. No effects known. No effects known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. No effects known. No effects known. No effects known. No effects known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
SECTION 12: Ecological information 12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information: General notes:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. Do not allow material to be released to the environment without proper governmental permits. 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. Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. No further relevant information available.
SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation Uncleaned packagings:	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.
Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport information	
UN-Number ADR, IMDG, IATA	UN3265
14.2 UN proper shipping name ADR IMDG, IATA	3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Pyridine-3-sulfonyl chloride) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Pyridine-3-sulfonyl chloride)
14.3 Transport hazard class(es) ADR	
Class Label IMDG, IATA	8 (C3) Corrosive substances. 8
Class Label Packing group	8 Corrosive substances. 8
Packing group ADR, IMDG, IATA	11
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Kemler Number:	Warning: Corrosive substances. 80
14.7 Transport in bulk according to Annex II Code	of MARPOL73/78 and the IBC Not applicable. (Contd. on page 4)

Page 4/4

Printing date 02.07.2013	Revision: 20.06.2012
Trade name Pyridine-3-sulfonyl chloride	
	(Contd. of page 3)
Transport/Additional information:	
ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E2 1L 2 E
UN "Model Regulation":	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Pyridine-3-sulfonyl chloride), 8, II
SECTION 15: Regulatory information 15.1 Safety, health and environmental regula Australian Inventory of Chemical Substances Standard for the Uniform Scheduling of Drugs and Poisons National regulations Information about limitation of use: Water hazard class: Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical Substances) Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:	tions/legislation specific for the substance or mixture Substance is not listed. Substance is not listed. For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Water hazard class 1 (Self-assessment): slightly hazardous for water. eregulations Substance is not listed. Substance is not listed. Substance is not listed. Substance is not listed. A Chemical Safety Assessment has not been carried out.
<b>SECTION 16: Other information</b> 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 t 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: Health, Safety and Environmental Department. Abbreviations and acronyms: Abbreviation

DE/E