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	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	4-tert-Pentylbenzenesulfonyl chloride	
Stock number:	L10894	
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	
2 Hazards identification		
Hazard designation:	C Corrosive	
Information montaining to monticular demonstra		
Information pertaining to particular dangers for man and environment	R 34 Causes burns.	
GHS label elements	Danger	
	H314 - Causes severe skin burns and eye damage.	
Prevention: Response:	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vom P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately	iting.
	with water/shower	
	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: Disposal:	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/na	ational/international regulations.
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3 Composition/information on ingredients Chemical characterization:	5	
Designation: (CAS#)	4-tert-Pentylbenzenesulfonyl chloride (CAS# 169677-20-7): 100%	
4 First aid measures General information	Instantly remove any clothing soiled by the product.	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient w persist.	arm. Consult doctor if symptoms
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
	Seek immediate medical advice.	ult de stor
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consu 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 Sulphur oxides (SOX)	
Protective equipment:	Hydrogen chloride (HCl) 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:	Do not allow material to be released to the environment without proper use neutralizing agent.	governmental permits.
	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. Store in cool, dry place in tightly closed containers.	
Information about protection against	Ensure good ventilation/exhaustion at the workplace.	
explosions and fires:	Keep ignition sources away - Do not smoke.	
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	Store away from strong bases.	
conditions:	Store under dry inert gas. This product is moisture sensitive.	
	Keen 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 of	or their assistants.
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tion	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
re Not required. No data	
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. Impervious gloves Not determined	
Safety glasses Tightly sealed safety glasses. Face protection Full face protection	
Protective work clothing.	
Solid. White Not determined	
44-49°C Not determined Not determined	
Not applicable	
Not determined	
Not determined	
Product is not explosive.	
Not determined Not determined	
Not determined	
Not determined	
Reacts	
No decomposition if used and stored according to specifications.	
Water/moisture Oxidizing agents Bases	
No dangerous reactions known Carbon monoxide and carbon dioxide Sulphur oxides (SOx)	
Hydrogen chloride (HCI)	
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. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of	
esophaguš and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
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.	
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.	
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: Kemler Number: UN-Number: Packaging group: Label Designation of goods: Limited quantities (LQ)	8 (C4) Corrosive substances. 80 3261 II 8 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-Pentylbenzenesulfonyl chloride) LQ23
Maritime transport IMDG/GGVSea:	EQ23
IMDG/GGVSea Class: UN Number: Label Packaging group:	8 3261 8 II
Marine pollutant: Segregation groups Correct technical name:	No Acids CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-Pentylbenzenesulfonyl chloride)
Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class: UN/ID Number: Label	8 3261 8
Packaging group: Correct technical name:	8 II CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-Pentylbenzenesulfonyl chloride)
UN "Model Regulation":	UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., 8, II
15 Regulatory information	
Designation according to EC guidelines:	
Code letter and hazard designation of product:	C Corrosive
Risk phrases:	34 Causes burns.
Safety phrases:	<ul> <li>When using do not eat or drink.</li> <li>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>36/37/39 Wear suitable protective clothing, gloves and eye/face protection.</li> <li>In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</li> </ul>
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.
<b>16 Other information:</b> Employers should use this information only a this information to ensure proper use and pro	as a supplement to other information gathered by them, and should make independent judgement of suitability of otect the health and safety of employees. This information is furnished without warranty, and any use of the produc Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing data specification she Contact: Abbreviations and acronyms:	eet: Health, Safety and Environmental Department. Zachariah Holt ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by 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 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: International 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
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