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		Revision. 11.00.2010
1 Identification of substance Product details		
Trade name	1-(p-Toluenesulfonyl)pyrrole	
Stock number:		
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:	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	
Prevention: Response:	H315 - Causes skin irritation. H319 - Causes serious eye irritation. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes and easy to do. Continue rinsing. P321 Specific treatment (see on this label).	. Remove contact lenses, if present
Storage: Disposal:	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/in	nternational regulations.
3 Composition/information on ingredient	S S	
Chemical characterization: Designation: (CAS#)	1-(p-Toluenesulfonyl)pyrrole (CAS# 17639-64-4): 100%	
4 First aid measures After inhalation	Supply feash air. If required provide artificial respiration. Keep patient warm. Cr	sacult destar if symptoms parsist
	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Co Seek immediate medical advice.	Silsuit doctor il symptoms persist.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult docto Seek immediate medical advice.	r.
5 Fire fighting measures Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment:	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcoh Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Wear self-contained breathing apparatus. Wear full protective suit.	ol-resistant foam.
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 governm	nental permits.
Measures for cleaning/collecting: 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 starge		
7 Handling and storage Handling		
Information for safe handling:	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:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common		
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	tion	
Additional information about design of		
	Properly operating chemical fume hood designed for hazardous chemicals and	having an average face velocity of at
technical systems:	least 100 feet per minute.	
technical systems: Components with critical values that require monitoring at the workplace: Additional information:	least 100 feet per minute.	(Contd. on page 2)

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		(Contri of page 1)
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.	(Contd. of page 1)
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 r varies from manufacturer to manufacturer. Impervious gloves	narks of quality and
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: Smell:	Solid. Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	99-102°C Not determined Not determined	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion: Critical values for explosion:	Product is not explosive.	
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: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx)	
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant for skin and mucous membranes. Irritant effect. No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully knowr No classification data on carcinogenic properties of this material is available from the EPA, IAF 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 s Do not allow material to be released to the environment without proper governmental permits.	ewage 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.	
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (c ADR/RID-GGVS/E Class:	ross-border/domestic) None	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	GB –

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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.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	

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.

 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:
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 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 RID: Réglement international Martime Code for Dangerous Goods
 Nail

 MDG: International Air Transport Association
 IATA: International Air Transport Association

 IATA: International Civil Aviation Organization
 ICAO: It: Technical Instructions by the "International Air Transport Association" (IATA)

 ICAO: The Cohnical Instructions System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)