	according to 1907/2006/EC, Article 31		
Printing date 03.08.2010	Revision: 03.08.2010		
1 Identification of substance			
Product details	- Taluard ablavida		
Trade name Stock number:	<u>m-Toluoyl chloride</u> B23914, L02875		
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG		
	Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com		
Informing department:	Product safety department.		
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240		
2 Hazards identification			
Hazard designation:	4		
-	C Corrosive		
Information pertaining to particular dangers for man and environment	R 34 Causes burns.		
GHS label elements			
	Danger		
Prevention:	H314 - Causes severe skin burns and eye damage. P280 Wear protective gloves/protective clothing/eye protection/face protection.		
Response:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER or doctor/physician.		
3 Composition/information on ingredient			
Composition/information on ingredient	5		
Designation: (CAS#) Identification number(s):	m-Toluoyl chloride (CAS# 1711-06-4)		
EINECS Number:	216-976-8		
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 warm. Consult doctor if symptoms persist.		
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.		
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.		
After swallowing	Seek immediate medical advice.		
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:		
Protocities a sector mante	Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Woor edit contractioned bracthing approach		
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 governmental permits.		
Measures for cleaning/collecting:	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.		
Additional information:	Do not flush with water or aqueous cleansing agents 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. Protect from humidity and keep away from water.		
	This product is moisture sensitive. Keep container tightly sealed.		
	Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.		
	Store in a locked cabinet or with access restricted to technical experts or their assistants.		

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Irade name <i>m-10100y1 chioride</i>	(Contd. of page 1)
8 Exposure controls and personal protec	ction
Additional information about design of	
technical systems: Components with critical values that require	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
monitoring at the workplace: Additional information:	Not required. No data
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
Breathing equipment:	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.
Protection of hands: Material of gloves	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.
Eye protection:	Safety glasses Tightly sealed safety glasses. Full face protection Face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour: Smell:	Liquid Colourless Pungent
Change in condition Melting point/Melting range:	Not determined
Boiling point/Boiling range: Sublimation temperature / start:	220°C Not determined
Flash point:	76°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	1.173 g/cm³
Solubility in / Miscibility with Water:	Reacts
<ul> <li>10 Stability and reactivity         <ul> <li>Thermal decomposition / conditions to be avoided:</li> <li>Materials to be avoided:</li> </ul> </li> <li>Dangerous reactions:         <ul> <li>Dangerous products of decomposition:</li> </ul> </li> </ul>	No decomposition if used and stored according to specifications. Water/moisture Oxidizing agents Bases Active metals Alcohols Amines No dangerous reactions known Carbon monoxide and carbon dioxide Hydrogen chloride (HCI)
11 Toxicological information Acute toxicity:	
LD/LC50 values that are relevant for classific	cation:
Oral LD50 1860 mg/kg (mouse)	
3440 mg/kg (rat) 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. 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, 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:	Consult state level or national regulations for proper dispace
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.
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Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)		
(A)		
•		
ADR/RID-GGVS/E Class: Kemler Number:	8 (C3) Corrosive substances.	
UN-Number: Packaging group:	3265 II	
Label Designation of goods:	8 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (m-Toluoyl chloride)	
Limited quantities (LQ) Transport category Tunnel restriction code		
	É	
Maritime transport IMDG/GGVSea:		
(I)		
IMDG/GGVSea Class:	8	
UN Number: Label	3265 8	
Packaging group: EMS Number:	ii IF-A,S-B	
Marine pollutant:	No	
Segregation groups Correct technical name:	Acids CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (m-Toluoyl chloride)	
Air transport ICAO-TI and IATA-DGR:		
ICAO/IATA Class: UN/ID Number:	8 3265	
Label	3203 8 11	
Packaging group: Correct technical name:	II CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (m-Toluoyl chloride)	
UN "Model Regulation":	UN3265, CORROSIVE LIQUID, 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:	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	F	
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
16 Other information:		
Employers should use this information only as this information to ensure proper use and prote	a supplement to other information gathered by them, and should make independent judgement of suitability of ect the health and safety of employees. This information is furnished without warranty, and any use of the product ata Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing data specification shee	t: Health, Safety and Environmental Department.	
Contact: Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
	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: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rall) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: 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 Instructions by the "International Civil Aviation Organization" ICAO: Thermational Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent GB	
	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	
	EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)	
	LCSU: Lethal concentration, SU percent GB	