1.

Syntor Fine Chemicals Ltd

IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY

Material Safety Data Sheet

1.1 Product identifier: Synonyms:	Methacryloyl chloride Methacrylic acid chloride	
Recommended uses: Uses advised against	Intermediate in chemical manufacture No information available	
1.3 Detail of supplier:	Syntor Fine Chemicals Ltd 11 Boleyn Court Manor Park Runcorn WA7 1SR	1.4 Emergency Telephone: +44 (0) 7720 149 777 Fax: +44 (0) 1928 579 734 e-mail: mr@syntor.co.uk www.syntor.co.uk
2. HAZARDS IDENTIFICATION		
2.1 Classification of the substance:		
Classification of substance according to CLP, 1272/2008/EC:		
2.2 Label element:		
Signal word:	Danger	
Hazard / Precautionary Statements:	H225 Highly flammable liquid and vapour H302 Harmful if swallowed. H330 Fatal if inhaled. H314 Causes severe skin burns and eye damage	

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P303+ 361 + 353 IF ON SKIN (or hair): Remove/Take off immediately all

2.3 Other Hazards:

Results of PBT and vPvB assessment PBT: vPvB:	contaminated clothing. Rinse skin with water/shower P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and safe to do so. Continue rinsing. P320 Specific treatment is urgent (see on this label) P405 Store locked up P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Not applicable Not applicable
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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Ingredient	CAS Number	EC Number	Concentration (% w/w)	Classification according to (EC) No 1272/2008 (CLP)	
Methacryloyl chloride	920-46-7	213-058-9	~ 100 %	Flam Liq. 2: H225 Highly flammable liquid and vapour. Acute Tox 4: H302 Harmful if swallowed. Acute Tox 1: H330 Fatal if inhaled Skin Corr. 1B: H314 Causes severe skin burns and eye damage	
(Stabilized with 400 ppm p	ohenothiazine	CAS Number:	92-84-2)		
Molecular formula: Molecular weight:		C₄H₅CIC 104.533)		
4. FIRST AID MEA	SURES				
1. Description of first aid measures: General information: Instantly remove any clothing soiled by the product. Remove breathing apparatus only after soiled clothing has been completely removed.					
Inhalation:		Supply f resuscit Consult	Supply fresh air. If required, provide artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep patient warm. Consult doctor if symptoms persist		
Skin contact:		Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.			
Eye contact:		Rinse o	Rinse opened eye for several minutes under running water. Then consult doctor.		
Swallowing:		Do not i immedia	nduce vomiting. I ate medical advice	Never give anything by mouth to an unconscious person. Seek	
4.2 Most important symp effects, both acute and o	otoms and lelayed:	No furth	No further relevant information available.		
4.3 Indication of immedi attention and special tre	ate medical atment neede	ded: No further relevant information available.			

5.1 Extinguishing Media: Suitable extinguishing agents:	CO2, sand or extinguishing powder. DO NOT USE WATER
For safety reasons unsuitable extinguishing media: 5.2 Special hazards caused by the	Water
material, its products of combustion or	
flue gases:	Can be released in case of fire. Carbon monoxide and carbon dioxide. Hydrogen chloride (HCI).
5.3 Precautions for fire fighters	Wear self-contained breathing apparatus. Wear full protective suit.
5.4 Further information:	Use water spray to cool un opened containers
6. ACCIDENTAL RELEASE MEASU	RES
6.1 Personal precautions, protective	
equipment and emergency procedures:	Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Do not let product enter drains
	Discharge into the environment must be avoided. Do not allow material to be released to the environment without proper governmental permits
6.3 Methods and materials for	Keep away from ignition sources. Contain spillage, and then collect with non-combustible
containment and cleaning up:	absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in
6.4 Reference to other sections:	Dispose of contaminated material according to local / national regulations. See section 13.
7. HANDLING AND STORAGE	
7.1 Precautions for safe handling	Avoid exposure - obtain special instructions before use. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
7.2 Conditions for safe storage,	Open and handle container with care.
including any incompatibilities:	Keep ignition sources away – Do not smoke.
	Fumes can combine with air to form an explosive mixture.
	Store away from strong bases.
	Protect from heat
7.3 Specific use(s)	Keep container tightly sealed. Protect from humidity. Keep away from water.
8. EXPOSURE CONTROLS / PERS	ONAL PROTECTION
8.1 Control parameters:	
Derived No Effect Level(DNEL): Predicted No Effect Concentration	No information available
(PNEL):	No information available
8.2 Exposure controls:	
Additional information about design of	Bronarty anarating adamical fuma haad designed for basardays adamicals and baying an
technical systems.	average face velocity of at least 100 feet per minute.
Personal protective equipment:	
General protective and hygienic	The usual precautionary measures should be adhered to in bandling the chemicals
incusures.	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.
Breathing equipment:	Use breathing protection with high concentrations.
Protection of hands:	Protective gloves
Eye protection: Body protection:	Tightly sealed safety glasses / full face protection Protective work clothing.
9. PHYSICAL AND CHEMICAL PRO	PERTIES
9.1 Information on basic physical and che	emical properties
a) Appearance Form: b) Odour:	Acrid

c) Odour Threshold: No information available d) pH
e) Melting/freezing point Melting point/range:
f) Initial boiling point and boiling range No information available No information available 95 to 96°C g) Flash point: 2°C h) Flammability: j) Upper/lower flammability or No information available explosive limits: No information available No information available

No information available

k) Vapour pressure: I) Vapour density:

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 m) Relative density: n) Water solubility: o) Partition coefficient: p) Autoignition temperature: q) Decomposition temperature: r) Viscosity: s) Explosive properties: t) Oxidizing properties: 9.2 Other information: 	1.07 g/cm3 Reacts, not miscible or difficult to mix No information available No information available No information available No information available No information available Reacts with water	
10. STABILITY AND REACTIVITY		
10.1 Reactivity:	Reacts with water	
10.2 Chemical stability:	Stable under recommended storage conditions. Danger of containers bursting upon heating	
10.3 Possibility of hazardous reactions:	Danger of polymerisation Polymerisation can be caused in un-stabilised product	
10.4 Conditions to avoid:	Excess heat, incompatible materials	

10.5 Incompatible materials:		

10.6 Hazardous decomposition products:

10.7 dditional information:

Carbon dioxide, Carbon monoxide. Hydrogen chloride Stabilised with 400 ppm phenothiazene. Uninhibited material may polymerise resulting in a temperature and pressure increase that may rupture the container

Water, Oxidising agents, Bases, Alcohols and Amines, Free-radical initiators,

11.	TOXICOLOGICAL INFORMATION	
11.1 I I	nformation on toxicological effects:	
Acute	toxicity:	
Oral:	-	LD50 mg/kg (rat)
Inhala	ation	LC50/2H 115 mg/m3/2H (mus)
		LC50/4H 60 mg/m3/4H (rat)
Prima	ry irritant effect:	
Effect	on the skin:	Caustic effect on skin and mucous membranes, irritant for skin and mucous membranes
Effect	t on the eye:	Strong caustic effect, irritant effect
lf swa	Illowed:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.
Sensi	tisation:	No sensitising effect known.
Additi	ional toxicological information	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data or carcinogenic properties of this material is available

Heat, Ultraviolet radiation

12. ECOLOGICAL INFORMATION

12 1 Toxicity	
Aquatic toxicity:	No further relevant information available
12.2 Persistence and degradability:	No further relevant information available
12.3 Bioaccumulative potential:	No further relevant information available
12.4 Mobility in soil:	No further relevant information available
12.5 Results of PBT and vPvB	No further relevant information available
assessment: 12.6 Other adverse effects	No further relevant information available
Additional ecological information:	Hazardous for water. Reacts with water to liberate acid gas 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	
13.1 Was	ste treatmen	t method	
Substan	ce disposal	:	Handover to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. Arrange disposal as special waste, by licensed disposal company.
Waste p	ackaging:		Dispose of as unused product.

14. TRANSPORT INFORMATION

Land transport ADR/RID e GGVS/GGVE (cross-border/domestic)



Designation of goods:

Label:

6.1 (TFC) Toxic substances
3488
1
6.1 + 3 + 8
3488 TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE N.O.S.

(Methacryloyl chloride)

Maritime transport IMDG/GGVSea:

	6.1	
UN No:	3488	
Label:	6.1 + 3 + 8	
Packaging group:		
Correct technical name:	TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE N.O.S. (Methacryloyl chloride)	
Air transport ICAO-TI and IATA-DGR:		
ICAO/IATA Class:	6.1	
UN/ID No:	3488	
Label:	6.1 + 3 +8	
Packaging group:		
Designation of goods:	IOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE N.O.S. (Methacryloyl chloride)	
15. REGULATORY INFORMATION		
This safety datasheet complies with the requir	rements of Regulation (EC) No. 1907/2006	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:		

No data available

15.2 Chemical Safety Assessment: Additional information:		A Chemical Safety Assessment has not been carried out for this substance. For use only by technically qualified individuals	
16.	OTHER INFORMATION		
Revision	Summary:	The issue replaces revision 005. The safety data sheet has been updated to align the hazard and precautionary phrases with those assigned during REACH registration. In addition the UN number has been updated to more accurately reflect the properties of the substance. There is no change to the classification of the substance.	

The above Information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Syntor Fine Chemicals Ltd, shall not be held liable for any damage resulting from handling or from contact with the above product.

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