

# Aaron Chemistry GmbH

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 30.11.2012 Print Date 13.09.2016 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product identifiers Product name	<sup>2</sup> 3,3-Dimethylacryloyl chloride		
	Product Number Brand CAS-No.	: 4148 : Aaron Chemistry GmbH : 3350-78-5		
1.2 Relevant identified uses of the substance or mixture and uses advised		f the substance or mixture and uses advised against		
	Identified uses	: Laboratory chemicals, Manufacture of substances		
1.3 Details of the supplier of the safety data sheet				
	Company	: Aaron Chemistry GmbH Am Fischweiher 41-43 D-82481 Mittenwald		
	Telephone Fax E-mail address	: +49 8823 917521 : +49 8823 917523 : info@aaron-chemistry.de		
1.4	Emergency telephone nu	Emergency telephone number		
	Emergency Phone #	+ 49 8823 917521		

# 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Flammable liquids (Category 3) Skin corrosion (Category 1B) Specific target organ toxicity - single exposure (Category 3)

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

Reacts violently with water. Causes burns. Irritating to eyes and respiratory system.

## 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]
Pictogram

Signal word	Danger
Hazard statement(s) H226 H314 H335	Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause respiratory irritation.
Precautionary statement(s) P261 P280	Avoid breathing vapours. Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard information (EU)EUH014Reacts violently with water.

## According to European Directive 67/548/EEC as amended.

Hazard symbol(s)	
R-phrase(s) R14	Reacts violently with water.
R34	Causes burns.
R36/37	Irritating to eyes and respiratory system.
S-phrase(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Other hazards	

Lachrymator.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

2.3

Synonyms	<ul> <li>3-Methyl-2-butenoyl chloride</li> <li>Senecioyl chloride</li> <li>3-Methylcrotonoyl chloride</li> </ul>	
Formula	: C <sub>5</sub> H <sub>7</sub> ClO	
Molecular Weight	: 118,56 g/mol	
Component		Concentration
3-Methyl-2-butenoyl cl	loride	
CAS-No.	3350-78-5	-
EC-No.	222-109-4	

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

# 4.3 Indication of any immediate medical attention and special treatment needed

no data available Aaron Chemistry - 4148

P310

## 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media

Suitable extinguishing media Dry powder

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen chloride gas
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

## **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **6.3** Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.

#### 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage.

Moisture sensitive.

# 7.3 Specific end use(s)

no data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components with workplace control parameters

## 8.2 Exposure controls

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

## Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: light yellow
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	145 - 147 °C - lit.
g)	Flash point	51 °C - closed cup
h)	Evaporation rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	1,065 g/cm3 at 25 °C
n)	Water solubility	no data available
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

## Other safety information no data available 9.2

10.	STABILITY AND REACTIVITY			
10.1	Reactivity no data available			
10.2	<b>Chemical stabilit</b> no data available Contains the follow Phenothiazine (0,	wing stabiliser(s):		
10.3	Possibility of hazardous reactions Reacts violently with water.			
10.4	<b>Conditions to avoid</b> Heat, flames and sparks. Exposure to moisture.			
10.5	Incompatible materials Water, Alcohols, Oxidizing agents, Strong bases			
10.6	Hazardous decomposition products Other decomposition products - no data available			
11.	TOXICOLOGICAL INFORMATION			
11.1	Information on toxicological effects			
	Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available			
	Carcinogenicity			
	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
	Reproductive toxicity no data available			
		<b>c target organ toxicity - single exposure</b> on - May cause respiratory irritation.		
	Specific target organ toxicity - repeated exposure no data available			
	Aspiration hazard no data available			
	Potential health	otential health effects		
	Inhalation Ingestion Skin Eyes	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin. Causes skin burns. Causes eye burns.		

#### Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

# Additional Information

RTECS: Not available

# 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity no data available
- 12.2 Persistence and degradability
- no data available 12.3 Bioaccumulative potential
- no data available
- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects no data available

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

## Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

14.	TRANSPORT INFORMATION			
14.1	<b>UN number</b> ADR/RID: 2920		IMDG: 2920	IATA: 2920
14.2	UN proper shipping nameADR/RID:CORROSIVE LIQUID, FLAMMABLE, N.O.S. (3-Methyl-2-butenoyl chloride)IMDG:CORROSIVE LIQUID, FLAMMABLE, N.O.S. (3-Methyl-2-butenoyl chloride)IATA:Corrosive liquid, flammable, n.o.s. (3-Methyl-2-butenoyl chloride)			
14.3	Transport hazard class(es) ADR/RID: 8 (3)		IMDG: 8 (3)	IATA: 8 (3)
14.4	Packaging group ADR/RID: II		IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no		IMDG Marine Pollutant: no	IATA: no
14.6	Special precautions for user no data available			
15.	REGULAT	ORY INFORMATION		

This safety datasheet complies with the requirements 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

no data available Aaron Chemistry - 4148

# 16. OTHER INFORMATION

## Further information

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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. Aaron Chemistry GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.aaron-chemistry.de