

MATERIAL SAFETY DATA SHEET
MALONYL DICHLORIDE 97%

Section 1 - Chemical Product and Company Identification

MSDS Name:	MALONYL DICHLORIDE 97%
Catalog Numbers:	9.137
Synonyms:	Malonic acid chloride; Malonic acid dichloride; Malonoyl chloride; Propanedioyl dichloride;
Company Identification:	Tau-Chem, Ltd. Nobelova 34, P.O. Box 29 836 05 Bratislava, Slovak Republic Tel/fax: 00421-2-44452252/ 00421-2-44457645
Emergency Number, Slovakia:	National Toxicological Information Centre Tel: 00421-2-54774166

Section 2 - Hazards Identification

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Flammable liquid (Category 3)

Skin corrosion (Category 1B)

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

React violently with water. Causes burns.

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

H226

Highly flammable liquid and vapor.

H314

Causes severe skin burns and eye damage.

EUH014

React violently with water.

Precautionary statement(s)

P280

Wear protective gloves/ protecting 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.

P310

Immediately call a POISON CENTER or doctor/physician.

Hazard symbol(s)

C

Corrosive.

R-phrase(s)

R14 React violently with water.
R34 Causes burns.

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, glove 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 None.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
1663-67-8	MALONYL DICHLORIDE	97	216-772-9

Classification Flam Liq. 2; Skin Corr. 1B;
H226,H314, EUH014;
C; R14 - 34

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 – 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: Wash off with soap and plenty of water. Consult a physician.

In case eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Carbon dioxide (CO₂), dry powder

Extinguishing media which should not be used: Water

Special protective equipment for fire-fighters: Wear self contained apparatus breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.
Environmental precautions:	Prevent further leakage or spillage if safe to do. Do not let product enter drains.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as a hazardous waste. Do not flush with water. Keep in suitable container for disposal according to local regulations. (See section 13)

Section 7 – Handling and Storage

Precautions for safe handling:	Avoid inhalation of vapor or mist. Keep away from sources of ignition. – No smoking. Take measures to prevent to built up of electrostatic charge.
Conditions for safe storage:	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. Recommended storage temperature: 2-8 °C

Section 8 – Exposure Controls, Personal Protection

Personal protective equipment:	
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).
Hand protection	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
Eye protection:	Face shield and safety glasses.
Skin and body protection:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 – Physical and Chemical Properties

Appearance	
Form:	Liquid
Color:	
Safety data:	
pH	Not available
Melting Point:	Not available

Boiling Point:	47 °C at 19.9 hPa
Flash Point:	47 °C closed cup
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Solubility in water:	Not available
Density:	1.45 g/cm ³
Molecular Formula:	C ₃ H ₂ Cl ₂ O ₂
Molecular Weight:	140.95 g/mol

Section 10 – Stability and Reactivity

Chemical Stability:	Stabile under recommended storage conditions.
Possibility of hazardous reactions:	React violently with water.
Conditions to Avoid:	Exposure to moisture.
Materials to avoid:	Water, Alcohol, Strong bases, Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous decomposition products under fire conditions. – Carbon oxides, Hydrogen chloride gas.

Section 11 – Toxicological Information

Acute toxicity	No data available
	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	May cause allergic respiratory reaction.
Germ cell mutagenicity	No data available
Carcinogenicity:	
	IARC: No component of this product presents 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
Specific target organ toxicity – single exposure	Inhalation – May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Potential health effect:	
Inhalation	Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed. Causes burns.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Signs and Symptoms of Exposure	

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Data not available.

Section 12 – Ecological Information

Toxicity:	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No data available

Section 13 – Disposal Considerations

Product	This combustible material may be burned in a chemical incinerator equipped with an afterburner and a scrubber. Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

Section 14 – Transport Information

	IATA	IMGD	RID/ADR
Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Hazard Class:	8 (3)	8 (3)	8 (3)
UN Number:	2920	2920	2920
Packing Group:	II	II	II

EMS No: F-E; S-C
Marine pollutant: No

Section 15 – Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Section 16 – Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

EUH014	Reacts violently with water.
Flam. Liq.	Flammable liquids.
H226	Flammable liquid and vapor.

H314	Causes severe skin burns and eye damage.
Skin Corr.	Skin corrosion.
C	Corrosive.
R14	Reacts violently with water.
R34	Causes burns.

MSDS Creation Date: 24/06/2010

Revision #0 Date

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.