

MATERIAL SAFETY DATA SHEET
BENZYL 2,2,2-TRICHLOROACETIMIDATE 99%

Section 1 - Chemical Product and Company Identification

MSDS Name: BENZYL 2,2,2-TRICHLOROACETIMIDATE 99 %

Catalog Numbers: 11.65

Synonyms: 2,2,2-Trichloroacetimidic acid benzyl ester

Relevant identified uses of substance or mixture and uses advised against

Identified uses Laboratory chemicals, Manufacture of substances

Company Identification: Tau-Chem, Ltd.
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POISON CENTER: National Toxicological Information Centre
Limbová 5, 833 05 Bratislava,

Emergency Numbers Slovakia: Phone: +42 2 54 774 166 Fax: +42 2 54 774 605

Section 2 - Hazards Identification**Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

According to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity – single exposure (Category 3)

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

Harmful if swallowed. Irritating to respiratory system and skin.

Label elements**Labeling according to Regulation (EC) No 1272/2008 [CLP]**

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/foam/mist/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.

Hazard symbol(s)

According to European Directive 67/548/EEC as amended



Hazard symbol(s)

R-phrase(s)

R22

R36/37/38

Harmful if swallowed.

Irritating to eyes, respiratory system and skin.

S-phrase(s)

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Caution

Substance not yet tested completely.

Other hazards

none

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
81927-55-1	BENZYL 2,2,2-TRICHLOROACETIMIDATE	99	Unlisted
Classification	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOTSE 3 H302, H315, H319, H335 Xn, R22 – R36/37/38		

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. Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue.
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. Depending on the intensity and duration of exposure, effects may vary from mild irritant, prolonged or repeated exposure can cause: Damage to the eyes.
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:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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 vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.
Conditions for safe storage:	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. Recommended storage temperature: 2 - 8 °C Light sensitive. Store under inert gas. Moisture sensitive.

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
Colour:	Colourless to pale yellow

Safety data:	
pH	Not available
Melting Point:	Not available
Boiling Point:	108 - 114 °C / 0.5 mm Hg
Flash Point:	> 113 °C – closed cup
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Solubility in water:	Reacts with water
Density:	1.359 g/cm ³ at 25 °C
Refractive Index:	1.5435 – 1.5455
Molecular Formula:	C ₉ H ₈ Cl ₃ NO
Molecular Weight:	252.53 g/mol

Section 10 – Stability and Reactivity

Chemical Stability:	Stabile under recommended storage conditions.
Conditions to Avoid:	Data not available
Materials to avoid:	Strong oxidizing agents, strong acids.
Hazardous Decomposition Products	Hazardous decomposition products under fire conditions. – Carbon oxides, nitrogen oxides, Hydrogen chloride gas.

Section 11 – Toxicological Information

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 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	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

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: No data 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	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.
Contaminated packaging	Dispose of as unused product.

Section 14 – Transport Information

	IATA	IMDG	RID/ADR
Shipping Name:	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard Class:			
UN Number:			
Packing Group:		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

Acute Tox.	Acute toxicity.
Eye Irrit.	Eye irritation.
Skin Irrit.	Skin irritation.

STOT SE	Specific target organ toxicity – single exposure.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Xn	Harmful.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.

MSDS Creation Date: 10/6/2008

Revision #1 Date : 05/12/2011

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

Disclaimer:

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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.