

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:		
Product name:	Allyl 2,2,2-Trichloroacetimidate	
Synonyms:	2,2,2-Trichloroacetimidic Acid Allyl Ester	
Catalog number:	PI-37279	
Relevant identified uses of the substance or mixture and uses advised against		
Identified uses:	Laboratory chemicals, Manufacture of substances	
Details of the supplier of the safety data sheet		
Company identification:	PI Chemicals Ltd.	
	633 Eshan Road,	
	Pudong New Area, Shanghai China, 201203	
Telephone number:	+86-21-58953700	
Fax number:	+86-21-58953701	
E-mail address:	info@pipharm.com	
Emergency telephone number		
Emergency number:	+86-21-58953706	

Section 2 - Hazards Identification

Classification of the substance or mixture: Regulation (EC) No 1272/2008 Flammable liquids (Category 4) Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Serious eye damage (Category 1) Specific target organ toxicity - single exposure (Category 3)

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger Hazard statement(s): H227: Combustible liquid.

www.pipharm.com



H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ 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.

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): Xn Harmful

Risk phrases:

R 22: Harmful if swallowed.

R 37/38: Irritating respiratory system and skin.

R 41: Risk of serious damage to eyes.

Safety phrases:

S 22: Do not breathe gas/fumes/vapour/spray.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37: Wear suitable protective clothing and gloves.

HMIS classification:

Health hazard:	2
Chronic health hazard	*
Flammability:	2
Physical hazards :	0
NFPA rating:	
Health hazard:	2
Fire:	2
Reactivity hazard:	0

Section 3: Composition & Information on Ingredients

Molecular formula:	C5H6Cl3NO
Molecular weight:	202.47

Component		Concentration
CAS Number:	51479-73-3	97%
EC Number:	No data available	

Section 4 - First Aid Measures



PI CHEMICALS LTD.

Eye:	Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.
Skin:	Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and
	shoes. Get medical aid if irritation develops and persists.
Ingestion:	Wash mouth out with water. Get medical aid immediately.
Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give
	oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

Extinguishing media:	For small (incipient) fires, us	se media such as "alcohol" foam, dry chemical, or
	carbon dioxide. For large fire	es, apply water from as far as possible. Use very
	large quantities (flooding) of	E water applied as a mist or spray; solid streams of
	water may be ineffective. Co	ool all affected containers with flooding quantities of
	water.	
Special hazards arising fr	om the substance or mixture:	Carbon oxides, nitrogen oxides (NOx), Hydrogen
		chloride gas
Advice for firefighters:	Wear a self-contained breathi	ng apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated place. Keep tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 $^{\circ}$ C.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:



Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

Physical state:	Liquid
Color:	Colorless or almost colorless
Odour:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	54-70 °C/7.5-11.25 mmHg
Flash point:	73 °C/163.4 °F
Evaporation rate:	No data available
Flammability(solid, gas):	No data available
Upper/lower flammability	
or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.333 g/mL at 25 °C
Solubility:	No data available
Partition coefficient: n-octanol/water:	log Pow: 2.143
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section 10-Stability and Reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended temperatures and pressures.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Heat, flames and sparks.
Incompatible materials:	Strong oxidizing agents,

www.pipharm.com



Hazard Decomposition products:

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

Section 11 - Toxicological Information

Acute toxicity:	
Component: Allyl 2,2,2-Trichloroacetime	idate
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:	
Not listed as a carcinogen by ACGIH, IA	ARC, NTP, or CA Prop 65.
Reproductive toxicity:	No data available
Specific target organ toxicity(STOT)-single exposure: No data available	
Specific target organ toxicity (STOT)-rep	peated exposure: No data available
Aspiration hazard:	No data available
Additional information:	RTECS#: not available

Section 12 – Ecological Information

Toxicity:	No data available
Component: Allyl 2,2,2-Trichloroacetimidate	
No data available	
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Component: Allyl 2,2,2-Trichloroacetimidate	
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	No data available
Other adverse effects:	No data available

Section 13 - Disposal Consideration

Waste treatment methods	
Product:	Dispose of in accordance with federal, state and local environmental regulations
Contaminated packaging:	Dispose of as unused product

Section 14 - Transport Information

IATA Not dangerous goods



PI CHEMICALS LTD.

1993
CBL
III
Combustible liquid, n.o.s. (O-Allyl 2,2,2-trichloroacetimidate)
No
No

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture No data available Chemical safety assessment:No data available

Section 16 – Other Information

SDS creation date:	May 6, 2013
Update:	Jan 23, 2014

Disclaimer:

The above information is believed to be accurate and represents the best knowledge available to us currently. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.