



TCI Chemicals (India) Pvt. Ltd.

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 3

Revision date: 10/29/2014

## 1. IDENTIFICATION

### Identification of the substance or preparation

Product name: Allyl Dimethyldithiocarbamate  
Product code: D1944

### Use of the substance/preparation

Recommended use: Reagents

### Company/undertaking identification

TCI Chemicals (India) Pvt. Ltd.  
Plot No. B-28, Phase II,  
5th Cross Street, MEPZ-SEZ, Tambaram,  
Chennai, Tamilnadu - 600045  
India  
Telephone: +91-44-2262 0909

### Emergency telephone number:

+91-44-2262 0909

## 2. HAZARDS IDENTIFICATION

### GHS classification

#### PHYSICAL HAZARDS

Flammable liquids Category 4

#### HEALTH HAZARDS

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

#### ENVIRONMENTAL HAZARDS

Not classified

### GHS label elements, including precautionary statements

#### Pictograms or hazard symbols



#### Signal word

Warning

#### Hazard statements

H227-Combustible liquid.  
H315-Causes skin irritation.  
H319-Causes serious eye irritation.

### Precautionary statements

#### [Prevention]

P210-Keep away from flames and hot surfaces.

P264-Wash hands thoroughly after handling.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

#### [Response]

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313-If eye irritation persists: Get medical advice/attention.

P302+P352-IF ON SKIN: Wash with plenty of soap and water.

P332+P313-If skin irritation occurs: Get medical advice/attention.

P362-Take off contaminated clothing and wash before reuse.

#### [Storage]

P403+P235-Store in a well-ventilated place. Keep cool.

#### [Disposal]

P501-Dispose of contents/container through a waste management company authorized by the local government

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance  
Components: Allyl Dimethyldithiocarbamate  
Percent: >98.0%(GC)  
CAS Number: 20821-66-3  
Synonyms: Dimethyldithiocarbamic Acid Allyl Ester  
Chemical Formula:  $C_6H_{11}NS_2$

## 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**D1944**

**Allyl Dimethyldithiocarbamate**

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#### 4. FIRST AID MEASURES

<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion:</b>	Get medical advice/attention if you feel unwell. Rinse mouth.
<b>Protection of first-aiders:</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Dry chemical, foam, water spray, carbon dioxide.
<b>Unsuitable extinguishing media:</b>	Solid streams of water
<b>Specific hazards arising from the chemical:</b>	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
<b>Precautions for firefighters:</b>	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
<b>Special protective equipment for firefighters:</b>	When extinguishing fire, be sure to wear personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods and materials for containment and cleaning up:</b>	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
<b>Prevention of secondary hazards:</b>	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

#### 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	
<b>Technical measures:</b>	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system, ventilation.
<b>Advice on safe handling:</b>	Avoid contact with skin, eyes and clothing.
<b>Conditions for safe storage, including any incompatibilities</b>	
<b>Storage conditions:</b>	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store away from incompatible materials such as oxidizing agents.
<b>Packaging material:</b>	Comply with laws.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
<b>Personal protective equipment</b>	
<b>Respiratory protection:</b>	Vapor respirator. Follow local and national regulations.
<b>Hand protection:</b>	Protective gloves.
<b>Eye protection:</b>	Safety glasses. A face-shield, if the situation requires.
<b>Skin and body protection:</b>	Protective clothing. Protective boots, if the situation requires.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state (20°C):</b>	Liquid
<b>Form:</b>	Clear
<b>Colour:</b>	Slightly pale yellow - Yellow
<b>Odour:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available
<b>Boiling point/range:</b>	108°C/0.7kPa
<b>Flash point:</b>	No data available (Calculated value:>60°C)
<b>Flammability or explosive limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Relative density:</b>	1.11
<b>Solubility(ies):</b>	
<b>[Water]</b>	No data available
<b>[Other solvents]</b>	No data available

#### 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under proper conditions.
<b>Possibility of hazardous reactions:</b>	No special reactivity has been reported.

## 10. STABILITY AND REACTIVITY

Conditions to avoid:	Open flame
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Sulfur oxides

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:  
Skin corrosion/irritation:  
Serious eye damage/irritation:  
Germ cell mutagenicity:  
Carcinogenicity:

Reproductive toxicity:

\*We judged that this product was not classified into Class 6.1 Toxic Substance of current edition of IATA Dangerous Goods Regulations (DGR) according to acute toxicity values and/or Quantitative Structure-Activity Relationship (QSAR).

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential (BCF):	No data available
Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant (PaM <sup>3</sup> /mol):	No data available

## 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

UN-No:	Not listed
ADR/RID Hazards Class:	Does not correspond to the classification standard of the United Nations
IMDG/IMO Hazards Class:	Does not correspond to the classification standard of the United Nations
ICAO/IATA Hazards Class:	Does not correspond to the classification standard of the United Nations

This substance is not regulated by IATA/ICAO/ADR/RID/IMO/IMDG and is considered to be Non Hazardous for transport by Air/Rail/Road/Sea

## 15. REGULATORY INFORMATION

In accordance with local and national regulations

## 16. OTHER INFORMATION

Prepared by:	TCI Chemicals (India) Pvt. Ltd.
Issue date:	10/29/2014

This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.