

**Carbon Disulphide**  
**CAS NO 75-15-0**

**MATERIAL SAFETY DATA SHEET**  
**SDS/MSDS**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifiers**

Product name : **Carbon Di Sulphide**

CAS-No. : **75-15-0**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Industrial & for professional use only.

**1.3 Details of the supplier of the safety data sheet**

Company : Pallav Chemicals & Solvents Pvt. Ltd  
253, Shiv Shakti Industrial Estate, Opp Mittal Estate  
Andheri Kurla Road, Andheri (E), Mumbai - 400050  
INDIA

Telephone : +91 22 4928 4000

Email : [sales@pallavchemicals.com](mailto:sales@pallavchemicals.com)

**1.4 Emergency telephone number**

Emergency Phone # : +91 22 4928 4000 (9:00am - 6:00 pm) [Office hours]

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids (Category 2), H225  
Reproductive toxicity (Category 2), H361fd  
Specific target organ toxicity - repeated exposure (Category 1), H372  
Eye irritation (Category 2), H319  
Skin irritation (Category 2), H315

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

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

F	Highly flammable	R11
T	Toxic	R48/23 R62, R63
Xi	Irritant	R36/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Oxidizing    Aspiration hazard    Skin irritation

Signal word     Danger

Hazard statement(s)

H225     Highly flammable liquid and vapour.  
H315     Causes skin irritation.  
H319     Causes serious eye irritation.  
H361fd     Suspected of damaging fertility. Suspected of damaging the unborn child.  
H372     Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P210                                     Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P281                                     Use personal protective equipment as required.  
P305 + P351 + P338                IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell.  
  
P314                                     None

Supplemental Hazard Statements

**2.3 Other hazards** - none

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Formula : CS<sub>2</sub>  
Molecular Weight : 76,14 g/mol  
CAS-No. : 75-15-0  
EC-No. : 200-843-6  
Index-No. : 006-003-00-3

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component	Classification	Concentration
<b>Carbon disulphide</b>	Flam. Liq. 2; Acute Tox. 4; - Skin Irrit. 2; Eye Irrit. 2; Repr. 2; STOT RE 1; H225, H302, H315, H319, H361fd, H372	

**Hazardous ingredients according to Directive 1999/45/EC**

Component	Classification	Concentration
<b>Carbon disulphide</b>	F, T, Repr.Cat.3, R11 - R36/38 - R48/23 - R62 - R63	

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

**SECTION 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**

Wash off with soap and plenty of water. Take victim immediately to hospital. 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**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Sulphur oxides

Flash back possible over considerable distance., Container explosion may occur under fire conditions., Vapours may form explosive mixture with air., May explode when heated.

#### **5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information**

Use water spray to cool unopened containers.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, 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. For personal protection see section 8.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **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).

#### **6.4 Reference to other sections**

For disposal see section 13.

### **SECTION 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.

For precautions see section 2.2.

#### **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.

Refrigerate before opening.

#### **7.3 Specific end use(s)**

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 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**

Face shield and safety glasses 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.

#### **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 AXBEK (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).

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

- a) Appearance Form: liquid  
Colour: colourless
- b) Odour Stench.
- c) Odour Threshold no data available
- d) pH no data available
- e) Melting point/freezing point: Melting point/range: -112 - -111 °C
- f) Initial boiling point and boiling range : 46 °C
- g) Flash point -30 °C - closed cup
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits : Upper explosion limit: 50 %(V)  
Lower explosion limit: 1,3 %(V)
- k) Vapour pressure : 394,956 hPa at 20 °C  
1.342,711 hPa at 55 °C
- l) Vapour density 2,63 - (Air = 1.0)
- m) Relative density 1,266 g/mL at 25 °C
- n) Water solubility no data available
- o) Partition coefficient: n- octanol/water : log Pow: 2,16
- 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

## 9.2 Other safety information

Relative vapour density 2,63 - (Air = 1.0)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Alkali metals, Zinc, Amines, Azides, Oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - 1.200 mg/kg

LD50 Oral - mouse - 2.780 mg/kg

LD50 Oral - rabbit - 2.550 mg/kg

LD50 Oral - guinea pig - 2.125 mg/kg

LC50 Inhalation - rat - 2 h - 25 mg/l

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

Human - lymphocyte

Sister chromatid exchange

#### 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

Suspected human reproductive toxicant

May cause reproductive disorders.

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

Inhalation - Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

no data available

#### Additional Information

RTECS: FF6650000

May cause convulsions.

Liver - Irregularities - Based on Human Evidence

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Toxicity to fish LC50 - other fish - 162 mg/l - 96 h

Toxicity to algae Growth inhibition EC50 - Chlorella pyrenoidosa - 21 mg/l - 96 h

### **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**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **12.6 Other adverse effects**

Harmful to aquatic life.

no data available

## **SECTION 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.

## **SECTION 14: Transport information**

### **14.1 UN number**

ADR/RID: 1131 IMDG: 1131 IATA: 1131

### **14.2 UN proper shipping name**

ADR/RID: CARBON DISULPHIDE

IMDG: CARBON DISULPHIDE

IATA: Carbon disulphide

Passenger Aircraft: Not permitted for transport

Cargo Aircraft: Not permitted for transport

### **14.3 Transport hazard class(es)**

ADR/RID: 3 (6.1) IMDG: 3 (6.1) IATA: 3 (6.1)

### **14.4 Packaging group**

ADR/RID: I IMDG: I IATA: -

### **14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

### **14.6 Special precautions for user**

no data available

## **SECTION 15: Regulatory 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**

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

### **Full text of H-Statements referred to under sections 2 and 3.**

Acute Tox. Acute toxicity

Eye Irrit. Eye irritation

Flam. Liq. Flammable liquids

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Repr. Reproductive toxicity

Skin Irrit. Skin irritation

### **Full text of R-phrases referred to under sections 2 and 3**

F Highly flammable

T Toxic

R11 Highly flammable.

R36/38 Irritating to eyes and skin.

R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

Repr.Cat.3 Toxic to Reproduction Category 3

### **Further information**

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. Pallav Chemicals & Solvents Pvt. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.pallavchemicals.com](http://www.pallavchemicals.com) for additional terms and conditions of sale.