

# Syntor Fine Chemicals Ltd

## Material Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY

**1.1 Product identifier:** 1,3 Dichloroacetone 35% Toluene  
**Recommended uses:** Intermediate in chemical manufacture  
**Uses advised against:** No information available

**1.3 Detail of supplier:** Syntor Fine Chemicals Ltd  
11 Boleyn Court  
Manor Park  
Runcorn  
WA7 1SR

**1.4 Emergency Telephone:**  
+44 (0) 7720 149 777  
Fax: +44 (0) 1928 579 734  
e-mail: [mr@syntor.co.uk](mailto:mr@syntor.co.uk)  
[www.syntor.co.uk](http://www.syntor.co.uk)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance:

Classification of substance according to CLP, 1272/2008/EC

#### 2.2 Label element:



#### Signal word:

Danger

#### Hazard / Precautionary Statements:

H225 Highly flammable liquid and vapour  
H330 Fatal if inhaled  
H300 Fatal if swallowed  
H314 Causes severe skin burns and eye damage  
H341 Suspected of causing genetic defects  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Wear respiratory protection..  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### 2.3 Other Hazards:

Results of PBT and vPvB assessment

PBT: Not applicable  
vPvB: Not applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Ingredient	CAS Number	EC Number	Concentration (% w/w)	Classification according to (EC) No 1272/2008 (CLP)
1,3 Dichloroacetone	534-07-6	208-585-6	~ 50 %	Acute toxicity, Oral (Category 2), H300 Acute toxicity, Dermal (Category 3), H311 Acute toxicity, Inhalation (Category 1), H330 Skin corrosion (Category 1B), H314 Germ cell mutagenicity (Category 2), H341
Toluene	108-88-3	203-625-9	~50%	Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Reproductive toxicity (Category 2), H361d Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Specific target organ toxicity - repeated exposure (Category 2), H373 Aspiration hazard (Category 1), H304

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures:

##### General information:

Instantly remove any clothing soiled by the product.

##### Inhalation:

Remove breathing apparatus only after soiled clothing has been completely removed. Supply fresh air. If required, provide artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep patient warm.

##### Skin contact:

Consult doctor if symptoms persist. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

##### Eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

##### Swallowing:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of immediate medical attention and special treatment needed:** No further relevant information available.

---

## 5. FIRE-FIGHTING MEASURES

---

**5.1 Extinguishing Media:**  
**Suitable extinguishing agents:** Carbon dioxide, sand or extinguishing powder, water or alcohol resistant foam

**For safety reasons unsuitable extinguishing media:** No information available

**5.2 Special hazards caused by the material, its products of combustion or flue gases:** Can be released in case of fire. Carbon monoxide and carbon dioxide.  
Hydrogen Chloride

**5.3 Precautions for fire fighters:** Wear self-contained breathing apparatus. Wear full protective suit.

**5.4 Further information:** Use water spray to cool un-opened containers

---

## 6. ACCIDENTAL RELEASE MEASURES

---

**6.1 Personal precautions, protective equipment and emergency procedures:** Product is a strong lachrymator.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.

**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. Do not allow material to be released to the environment without proper governmental permits

**6.3 Methods and materials for containment and cleaning up:** Keep away from ignition sources – no smoking  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections:** Dispose of contaminated material according to local / national regulations.  
See section 13.

---

## 7. HANDLING AND STORAGE

---

**7.1 Precautions for safe handling:** Avoid exposure - obtain special instructions before use. Keep containers tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep ignition sources away – Do not smoke.  
Fumes can combine with air to form an explosive mixture.  
Store in cool location. Store away from oxidizing agents. Strong bases.  
Keep container tightly sealed.

**7.3 Specific use(s):** No further relevant information available.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

**8.1 Control parameters:**  
**Derived No Effect Level(DNEL):** No information available

**Predicted No Effect Concentration (PNEL):** No information available

**8.2 Exposure controls:**  
**Additional information about design of technical systems:** Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Personal protective equipment:**  
**General protective and hygienic measures:** The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.

**Breathing equipment:** Use breathing protection with high concentrations.

**Protection of hands:** Protective gloves

**Eye protection:** Tightly sealed safety glasses / full face protection

**Body protection:** Protective work clothing.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

### 9.1 Information on basic physical and chemical properties

**a) Appearance Form:** Colourless to pale yellow liquid

**b) Odour:** Not determined

c) Odour Threshold:	No information available
d) pH	No information available
e) Melting/freezing point Melting point/range:	No information available
f) Initial boiling point and boiling range	110 – 111°C
g) Flash point:	4°C
h) Flammability:	No information available
j) Upper/lower flammability or explosive limits:	No information available
k) Vapour pressure:	No information available
l) Vapour density:	No information available
m) Relative density:	No information available
n) Water solubility:	No information available
o) Partition coefficient:	No information available
p) Autoignition temperature:	No information available
q) Decomposition temperature:	No information available
r) Viscosity:	No information available
s) Explosive properties:	No information available
t) Oxidizing properties:	No information available
9.2 Other information:	No further relevant information available

---

## 10. STABILITY AND REACTIVITY

---

10.1 Reactivity:	Stable under recommended storage conditions.
10.2 Chemical stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known
10.4 Conditions to avoid:	Incompatible materials
10.5 Incompatible materials:	Oxidizing agents, strong bases
10.6 Hazardous decomposition products:	Carbon dioxide, carbon monoxide, hydrogen chloride (HCl)

---

## 11. TOXICOLOGICAL INFORMATION

---

### 11.1 Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 Values that are relevant for classification (100% basis):

Oral	20 mg/kg (rat)
Dermal – LD50 –	53 mg/kg (rabbit)
Inhalative – LC50 –	27 mg/m <sup>3</sup> (Mouse) / 29 mg/m <sup>3</sup> (rat)
Irritation of skin: Severe –	500 mg (rabbit)
Irritation of eyes: Severe –	100 mg (Rabbit)

#### Primary effect:

#### On the skin:

Causes burns.

#### On the eye:

Causes burns

#### Sensitising:

Causes dermatitis.

#### Route of exposure:

#### Skin absorption:

Toxic if absorbed through skin.

#### Inhalation:

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

#### Ingestion:

May be fatal if swallowed.

#### Other information (about experimental toxicology):

Tumorigenic effects have been observed on tests with Laboratory animals.

Mutagenic effects have been observed on tests with bacteria.

Mutagenic effects have been observed on tests with laboratory animals.

#### Signs and symptoms of exposure:

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and oedema of the larynx and bronchi, chemical pneumonitis, and pulmonary oedema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

#### Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

---

## 12. ECOLOGICAL INFORMATION

---

### 12.1 Toxicity

#### Aquatic toxicity:

No further relevant information available

#### 12.2 Persistence and degradability:

No further relevant information available

#### 12.3 Bioaccumulative potential:

No further relevant information available

#### 12.4 Mobility in soil:

No further relevant information available

#### 12.5 Results of PBT and vPvB

No further relevant information available

**assessment:**

**12.6 Other adverse effects** No further relevant information available

**Additional ecological information:**

**General notes:** Water hazard class 2. Hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

---

**13. DISPOSAL CONSIDERATIONS**

---

**13.1 Waste treatment method**

**Substance disposal:** Handover to disposers of hazardous waste.  
Must be specially treated under adherence to official regulations.  
Consult state, local or national regulations for proper disposal.  
Arrange disposal as special waste, by licensed disposal company.

**Waste packaging:** Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

---

**Land transport ADR/RID e GGVS/GGVE (cross-border/domestic)**



**ADR/RID-GGVS/E Class:** 3 (FTC) Flammable liquids.  
**Kemler Number:** 368  
**UN No:** 3286  
**Packaging group:** II  
**Label:** 3 + 6.1 + 8  
**Designation of goods:** 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (1,3 Dichloroacetone, 35% in toluene)

**Maritime transport IMDG/GGVSea:**



**IMDG/GGVSea Class:** 3  
**UN No:** 3286  
**Label:** 3 + 6.1 + 8  
**Packaging group:** II  
**Correct technical name:** FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (1,3 Dichloroacetone, 35% in toluene)

**Air transport ICAO-TI and IATA-DGR:**



**ICAO/IATA Class:** 3  
**UN/ID No:** 3286  
**Label:** 3 + 6 + 8  
**Packaging group:** II  
**Designation of goods:** FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (1,3 Dichloroacetone, 35% in toluene)

---

**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:** A Chemical Safety Assessment has been carried out for this substance.

**Additional information:** For use only by technically qualified individuals

---

**16. OTHER INFORMATION**

---

**Revision Summary:** The issue replaces revision 002. The safety data sheet has been updated to remove reference to the dangerous substances directive 67/548/EEC. There is no change to the classification and labelling of the substance.

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. Syntor Fine Chemicals Ltd, shall not be held liable for any damage resulting from handling or from contact with the above product.

Disclaimer: For R&D use only. Not for drug, household or other uses.

We welcome any additional information about our products that customers have obtained by personal experience.

