

Syntor Fine Chemicals Ltd

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY

Product name: 1,3 Dichloroacetone 50% in Acetone
Supplier: Syntor Fine Chemicals Ltd
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Manor Park
Runcorn
WA7 1SR

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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.
H300 Fatal if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust / fumes / gas/ mist / vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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
Acetone	67-64-1	200-662-2	~50%	Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

4. FIRST AID MEASURES

4.1 Description of first aid measures:

General information:

Instantly remove any clothing soiled by the product.
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.
Consult doctor if symptoms persist.

Inhalation:

Skin contact:

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	73 ⁰ C
g) Flash point:	-11 ⁰ 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:	1.025 g/cm ³
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:	Bases, oxidising agents, reducing agents.
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 ³ (Mouse)
	29 mg/m ³ (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 affects 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.

Route of exposure:

Skin contact: causes burns.

Skin absorption: Toxic if absorbed through skin.

Eye contact: Causes burns.

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.

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: Hazardous for water.
General notes: 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, 50% in acetone)

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: 3
UN No: 3286
Label: 3 + 6.1 + 8
Packaging group: II
Correct technical name: 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (1,3 Dichloroacetone, 50% in acetone)

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: 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (1,3 Dichloroacetone, 50% in acetone)

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 004. 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.

