

## MSDS for 1-Chloroethyl isopropylcarbonate, 98%

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

1-Chloroethyl isopropylcarbonate, 99%

98513

### Section 1 - Chemical Product and Company Identification

**MSDS Name** 1-Chloroethyl isopropylcarbonate, 98%

**Synonyms** Carbonic acid,1-chloroethyl isopropyl ester

**Company Identification (India)** Atul Ltd.,  
PP- Site  
Atul Limited  
Atul – 396 020  
INDIA

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#
98298-66-9	1-Chloroethyl isopropyl carbonate	98%	

Hazard Symbols:

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW POTENTIAL HEALTH EFFECTS

**Eye**

**Skin**

**Ingestion**

**Inhalation** If concentrated vapors are inhaled, carry person into fresh air.

**Chronic** Not available.

### Section 4 - First aid Measures

**Eyes** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin** Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion** Do NOT induce vomiting. If victim is conscious and alert, give

2-4 cupfuls of milk or water. Get medical aid immediately. Wash mouth out with water.

**Inhalation** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### Notes to Physician

#### Section 5 - Fire Fighting Measures

**General Information** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media** Use foam, dry chemical, or carbon dioxide. DO NOT USE WATER!

#### Section 6 - Accidental Release Measures

**General Information** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks** Absorb spill with inert material, (e.g., vermiculite, dry sand or earth), then place into a chemical waste container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

#### Section 7 - Handling and Storage

**Handling** Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

**Storage** Stored in its closed original drum in a covered dry, cool and well ventilated warehouse, the product is stable. Otherwise, it hydrolyses very slowly to form carbon dioxide and isopropanol. When mixed with air and confined, the vapor of isopropyl carbonate and isopropanol can be explosive. However, in case of prolonged storage it is recommended to check again the product before use, be measuring typical parameters of its quality such as the alcohol level.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls** Use adequate ventilation to keep airborne concentrations low.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eyes** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

- Skin** Wear appropriate protective gloves to prevent skin exposure.
- Clothing** Wear appropriate protective clothing to prevent skin exposure.
- Respirators** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### **Section 9 - Physical and Chemical Properties**

<b>Physical State</b>	Clear liquid
<b>Appearance</b>	Colourless
<b>Odor</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor Pressure</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Boiling Point</b>	170 deg. C at 105 pa
<b>Freezing/Melting Point</b>	-80 deg. C
<b>Autoignition Temperature</b>	Not available.
<b>Flash Point</b>	Not available
<b>Explosion Limits, lower</b>	Not available.
<b>Explosion Limits, upper</b>	Not available.
<b>Decomposition Temperature</b>	
<b>Solubility</b>	Soluble in the main common organic solvents (acetone, toluene, methylene chloride, THF)
<b>Specific Gravity/Density</b>	1.08
<b>Molecular Formula</b>	C6H11ClO3
<b>Molecular Weight</b>	166.7

### **Section 10 - Stability and Reactivity**

<b>Chemical Stability</b>	Not available.
<b>Conditions to Avoid</b>	Incompatible materials, moisture.
<b>Incompatibilities with Other Materials</b>	
<b>Hazardous Decomposition Products</b>	Isopropanol, carbon dioxide
<b>Hazardous Polymerization</b>	Has not been reported

### **Section 11 - Toxicological Information**

**RTECS#** CAS# 98298-66-9unlisted.

**LD50/LC50** Not available.

**Carcinogenicity** 1-Chloroethyl isopropyl carbonate  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
See actual entry in RTECS for complete information.

### **Section 12 - Ecological Information**

### **Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.

### **Section 14 – Transport information**

	<b>IATA</b>	<b>IMO</b>	<b>RID / ADR</b>
<b>Shipping Name:</b>	Refer to the FDS or MSDS (Proper item)		

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Dangerous Goods Code:**

### **Section 15 - Regulatory Information**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Risk Phrases:

R 10 Flammable.

R 20/21/22 Harmful by inhalation, in contact with  
skin and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 16 Keep away from sources of ignition - No  
smoking.

S 25 Avoid contact with eyes.

S 36/37/39 Wear suitable protective clothing, gloves  
and eye/face protection.

S 45 In case of accident or if you feel unwell, seek  
medical advice immediately (show the label where  
possible).

WGK (Water Danger/Protection)

CAS# 98298-66-8: No information available.

United Kingdom Occupational Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 98298-66-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 98298-66-9 is not listed on the TSCA inventory.  
It is for research and development use only.

**MSDS Creation Date** 02/06-2003  
**Revision #0 Date** Original.

**Section 16 - Additional Information**

*The information above is believed to be accurate and represents the best information currently available to us. 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 the company 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, howsoever arising, even if the company has been advised of the possibility of such damages.* -----  
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