



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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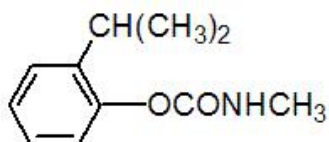
### 1. Chemical Product Identification

Product Name: Isoprocarb 95% TC

Molecular Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>2</sub>

Molecular Weight: 193.24 g/mol

Structural Formula:



Chemical Name: o-cumenyl methylcarbamate

Form: Solid

Color: White

CAS No.: 2631-40-5

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Isoprocarb	2631-40-5	95.0
Other ingredients		5.0

### 3. Hazards Identification

Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/



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Safetydata sheets.

#### 4. First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance.

Describe any symptoms and follow the advice given.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Eyes contact: Flush eyes with water as a precaution.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites., Headache, Nausea, Vomiting, Dizziness, Drowsiness, Confusion., Weakness, Muscle cramps/spasms., Change in pupil size., Fever, Seizures., Incoordination.

#### 5. Fire-Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NO<sub>x</sub>). Advice for firefighters .Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. Accidental Release Measures

Release Notes: Isolate and post spill area.Wear protective clothing and personal protective equipment .Keep unprotected persons and animals out of the area.

Keep material out of lakes, streams, ponds and sewer drains. Large spill should be covered to prevent dispersal.For dry material,use a wet sweeping compound or water to prevent dispersal.If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil.Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol.Follow this by washing with a strong soap



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and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary.

## 7. Handling And Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure Controls / Personal Protection

Personal protective equipment: Long-sleeved shirts and long pants, shoes plus socks.

Respiratory protection: Ensure good ventilation. If not adequate, use a suitable respirator for added protection.

Protective gloves: waterproof gloves

Eye protection: Safety glasses; chemical goggles.

Industrial hygiene: always practice good industrial hygiene; handle with care; avoid personal contact. Do not get into eyes or on skin; do not breathe mist or vapor of product. Do not swallow. Wash hands with soap and water and rinse after handling product. Shower after each shift. Wash all work clothing and completely clean all personal protective equipment after each shift.

## 9. Physical And Chemical Properties

Form: Solid

Color: White

Melting Point: 92.2°C

Water content:  $\leq 0.5\%$

Content of free phenol:  $\leq 0.5\%$

Vapour pressure: 2.8 mPa at 25°C

## 10. Stability And Reactivity

Reactivity: no data available.

Chemical stability: no data available.

Possibility of hazardous reactions: no data available.

Conditions to avoid: no data available.



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Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Other decomposition products - no data available.

### 11. Toxicological Information

Acute oral LD<sub>50</sub> for rats is 403 a.i.mg/kg.

Acute dermal LD<sub>50</sub> for rabbits is >2000 a.i.mg/kg.

Acute inhalation LC<sub>50</sub> (4 h) for rat: 2.09 a.i.mg/L.

Skin irritation: Slightly irritating to skin (rabbits).

Eye irritation: Slightly irritating to eyes (rabbits).

Skin sensitization: Non-sensitizing (guinea pigs).

### 12. Ecological And Ecotoxicological Information

Effect on fish: moderate toxicity to fish, acute 96 hour LC<sub>50</sub> for carp is 22 a.i.mg/L.

Effect on aquatic invertebrates: high toxicity to aquatic invertebrates, acute 48 hour EC<sub>50</sub> for Daphnia magna is 0.024 a.i.mg/L.

Effect on algae: low toxicity to algae, acute 72 hour EC<sub>50</sub> for Pseudokirchneriella subcapitata is 21 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, contact acute 48 hour LD<sub>50</sub> is >2.0 a.i.µg/bee.

### 13. Disposal Considerations

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

### 14. Transport Information

Not applicable

### 15. Regulatory Information

Not applicable



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### 16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.