

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Orbencarb

## 2. HAZARDS IDENTIFICATION

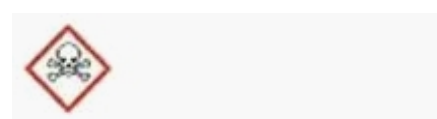
### Classification of the substance or mixture

According to Regulation (EC) No1272/2008  
Acute toxicity, Inhalation (Category 3)  
Acute toxicity, Oral (Category 4)

According to European Directive 67/548/EEC as amended.  
Harmful by inhalation and if swallowed.

### Label elements

Pictogram



Signal word : Danger

Hazard statement(s)

H302 Harmful if swallowed.  
H331 Toxic if inhaled.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P311 Call a POISON CENTER or doctor/physician.

Hazard symbol(s)

Xn Harmful

R-phrases(s)

R20/22 Harmful by inhalation and if swallowed.

S-phrases(s)

none

Caution - substance not yet tested completely.

**Other hazards** - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C12H16ClNOS  
Molecular Weight : 257,78 g/mol

CAS-No.	EC-No.	Classification	Concentration
<b>S-(2-Chlorobenzyl) N,N-dietylthiocarbamate</b> 34622-58-7	-	Acute Tox. 3; Acute Tox. 4; H302, H331 Xn, R20/22	-

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

## 4. 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. 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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.

### Conditions for safe storage

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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (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).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid

### Safety data

pH : no data available  
Melting point : no data available  
Boiling point : no data available  
Flash point : no data available  
Ignition temperature : no data available  
Lower explosion limit : no data available  
Upper explosion limit : no data available  
Density : 1,010 g/cm<sup>3</sup> at 20 °C  
Water solubility : no data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - mouse - 1.010 mg/kg

LC50 Inhalation - rat - 4 h - 3.350 mg/m<sup>3</sup>

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### 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

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Potential health effects

**Inhalation** Harmful if inhaled. May cause respiratory tract irritation.  
**Ingestion** Harmful if swallowed.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.

### Additional Information

RTECS: EZ7259400

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish : LC50 - Cyprinodon sp. (minnow) - 3,4 mg/l - 48 h

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. 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

### ADR/RID

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

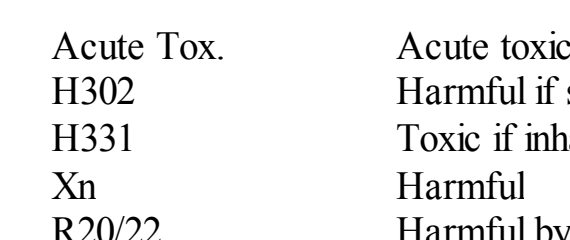
## 16. OTHER INFORMATION

### Text of H-code(s) and R-phrases mentioned in Section 3

Acute Tox. : Acute toxicity  
H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
Xn Harmful  
R20/22 Harmful by inhalation and if swallowed.

### Further information

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



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