



MATERIAL SAFETY DATA SHEETS

149

Coumaphos

1. CHEMICAL IDENTITY

Chemical Name : Coumaphos

Chemical Classification: Toxic

Trade Name :

Synonyms: CO-RAL, Asuntol, Baymix, O-3-Chloro-4-methyl-2-oxo-2H-chromen-7-yl O,O-diethyl phosphorothioate, Resitox

Formula : C₁₄H₁₆ClO₅PS

CAS No: 56-72-4

UN No: 3027

Regulated Identification

Shipping Name : Organo phosphorous pesticide

Hazchem Code : 2X

Codes / Label : Class 6.1, Toxic

Hazardous Waste ID No : 15

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
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1	Coumaphos	3	
2		4	

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 450

Physical State: Solid

Appearance: Slightly brownish crystals.

Melting Pt °C: 97.8 - 98.2

Vapour Pressure @ 35°C mmHg: 9.7X10⁻⁸ mm Hg @ 20 deg C

Odour: Slight sulfurous odour

Vapour Density(Air =1):

Solubility in water at 30°C g/100ml: Insoluble

Others: Somewhat soluble in acetone, chloroform, corn oil.

Specific Gravity (Water =1): 1.47 @ 20 deg C/4 deg C

pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability :

LEL:

Flash Point °C in OC:

TDG Flammability:

UEL:

Flash Point °C in CC: 225

Autoignition Temperature °C :

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : Toxic and irritating oxides of sulfur and phosphorus may form in fire.

Hazardous Polymerization :

Combustible Liquid: Yes

Explosive Material:

Corrosive Material

Flammable Material:

Oxidiser :

Others:

Pyrophoric Material:

Organic Peroxide :

4. REACTIVITY DATA

Chemical Stability :

Incompatibility with other material : Reacts with strong oxidizing agents and alkaline materials.

Reactivity :

Hazardous Reaction Products : When heated to decomposition, it will release toxic and irritating oxides of sulfur, phosphorus and chlorides.

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

Effects of Exposure / Symptoms:

Inhalation : Acute respiratory insufficiency is the main cause of death in acute poisonings. Ingestion : Vomiting, hypersalivation, diarrhea, fecal incontinence and abdominal pain may occur. Skin : Sweating is a consistent but not universal sign. Eye : Constriction of the pupil, tearing, and blurred vision are common. Prolonged dilation of the pupils may occur in severe poisonings. Opsoclonus has been reported in one case. Excessive salivation commonly occurs.

Emergency Treatment :

Inhalation: Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

Skin: Remove all exposed clothing and jewelry taking precautions. Irrigate exposed areas promptly with copious amounts of water for at least 30 minutes. Wash skin, including hair and nails, vigorously; do repeated soap washings. Discard contaminated clothing.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Ingestion: Administer charcoal as a slurry (240 ml water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents.

LD50 (oral-rat) mg/kg: 13 mg/kg	STEL:
LC50 (rat) mg/kg: 0.303 mg/liter	Odour Threshold: 2.0X10 ⁻² ppm (in water)
Permissible Exposure Limit:	TLV (ACGIH) :

NFPA Hazard Signals	Health	Flammability	Reactivity	Special
	2	1	2	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Wear appropriate protective gloves, clothing and goggles.

Equipment

Handling : All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Storage : Tightly closed containers. Keep away from heat and water.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media : Extinguish with water, foam, carbon dioxide, or dry chemical.

Special Procedure : Wear positive pressure self-contained breathing apparatus when fighting fires involving this material. Use water in flooding quantities as fog. Cool all affected containers with flooding quantities of water.

Unusual Hazards :

EXPOSURE: First Aid Measures:

Inhalation: Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and

corticosteroid aerosols.

Skin: Remove all exposed clothing and jewelry taking precautions. Irrigate exposed areas promptly with copious amounts of water for at least 30 minutes. Wash skin, including hair and nails, vigorously; do repeated soap washings. Discard contaminated clothing.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Ingestion: Administer charcoal as a slurry (240 ml water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Stop leak if you can do it without risk. Use water spray to reduce vapours. Small spills: take up with sand or other noncombustible absorbent material. Small dry spills: with clean shovel, place material into clean, container and cover. Large spills: dike

Waste Disposal Method:

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM :

Contact person

MAILING ADDRESS :

in Emergency :

TELEPHONE / TELEX NOS :

Local Bodies involved :

TELEGRAPHIC ADDRESS :

Standard Packing :

OTHERS :

Trem Card Details / Ref :

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