



Identification of the substance or mixture and of the company/undertaking

| | |
|-------------------|---|
| Trade name | CMAC – CYPERMETHRIC ACID CHLORIDE |
| Usage | Intermediate for Insecticide manufacture |
| Appearance | Yellow to fine yellow colour clear liquid |

Details of the supplier of the safety data sheet.

SPARCHEM
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Emergency telephone number

0091- 22-22642642

COMPOSITION / INFORMATION ON INGREDIENTS

| Component name | CAS No. | Conc. % w/w |
|-----------------------|----------------|--------------------|
| CMAC | 52314 - 67 - 7 | 98.50% w/w min |

HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS : EMERGENCY OVERVIEW

| | | |
|-------------------|---|---|
| Eyes | : | Can cause temporary irritation, tearing and blurred vision |
| Skin | : | Can cause a slight irritation on more sensitive areas [face, eyes, mouth] prolonged or repeated exposure can cause irritation and reddening of the skin, possibly progressing into dermatitis |
| Ingestion | : | Can cause stomach irritation resulting in nausea, cramps and vomiting. Large doses may cause nasal and respiratory irritation |
| Inhalation | : | Excessive inhalation can cause nasal and respiratory irritation |
| Ecological | | Toxic to fish and aquatic organisms |

First aid measures

| | |
|-------------------|---|
| Eyes | Remove immediately with clean water for at least 15 minutes and obtain medical aid |
| Skin | Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried. |
| Ingestion | Wash out mouth with water. Induce vomiting only if medical treatment is not readily available, the patient is fully conscious and the time since ingestion is less than one hour. Keep patient at rest and seek medical advice. |
| Inhalation | If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried. |

Firefighting measures

Flash point

NA

Extinguishing media

If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.

Special exposure hazards

May give off toxic fumes if heated to decomposition

Protective equipment for fire-fighting

Do not breathe fumes. Wear self contained breathing apparatus

Fire fighting guidance

Remove all ignition sources. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

Accidental release measures

Personal precautions

Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in section 8.

Environmental precautions

Keep people and animals away. Prevent entry into drains, sewers and watercourses.

Spillage

Contain / absorb spillage in sand / earth or in a suitable inert material. Transfer collected material to heavy duty plastic drums and keep safe for disposal.

Note

Check also for any local site protective in force.

Handling and storage

Precautions for safe handling

Wear chemically impervious gloves such as neoprene or nitrile. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Read and observe all precautions and instructions on the label.

Storage

Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated. Store away from seeds, fertilizers and animal feed stuffs.

Exposure controls/personal protection

Engineering controls

Mechanical ventilation should be used when handling this product in closed spaces

Respiratory protection

NIOSH approved organic vapor respirator in absence of mechanical ventilation

Hand protection

Wear chemical resistant PVC or nitrile gloves

Eye protection

Wear safety goggles with imperforated side shield or goggles

Other

Wear PVC or chemical resistant disposable overalls and PVC boots

Physical and chemical properties

| | |
|------------------|--|
| Physical state | Liquid |
| Color | Light yellow liquid |
| Odour | Characteristic |
| Specific Gravity | 1.23 at 30°C |
| Boiling point | 78 - 80°C at 1.5 mm Hg and 116 - 117°C at 7.5 mm Hg |
| Freezing point | Does not freeze up to -5°C |
| Solubility | Miscible with n-Hexane, Benzene, Toluene, Chloroform And CTC in all proportions |
| Molecular weight | 227.5 |

Stability and reactivity

Stability

Stable under normal storage conditions.

Materials to avoid

None under normal condition of use.

Toxicological information

| | | |
|-------------------|-------------------------------------|--------------------------|
| Eye | Acute eye irritation in rabbits | Irritant to Eye and skin |
| Skin | Dermal sensitization in Guinea pigs | May cause sensitization |
| Ingestion | NA | NA |
| Inhalation | NA | NA |

| | | |
|-----------------------|--------------------------|--|
| Long term studies | <input type="checkbox"/> | |
| Carcinogenicity | <input type="checkbox"/> | Non-carcinogenic in rat and mice |
| Mutagenicity | <input type="checkbox"/> | Non mutagenic. Did not cause any chromosomal effects Did not cause any DNA single strand damage. |
| Reproductive toxicity | <input type="checkbox"/> | No teratogenic effects |

Ecological information

Persistence in the environment

Strongly adsorbed in soil particles with no risk of leaching and moderately persistent in aquatic organisms

Toxic effects on organisms

Fish

NA

Daphnia magna

NA

Birds

NA

Disposal considerations

Waste treatment methods

Product Disposal

Disposal of product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation authorities.

Package disposal

Decontaminate empty, damaged, or leaking containers with a 10% sodium carbonate solution added at the rate of at least 1 litre per 20-litre drum. Puncture containers to prevent reuse. Dispose of empty containers in an incinerator approved for chemicals. Dispose of container in accordance with local regulation.

Transport information

| | |
|-----------------------------|-------------------------|
| UN number | 1760 |
| UN class | 8 |
| UN packaging group | III |
| Proper shipping name | Corrosive Liquid, N.O.S |

Regulatory information

CAS

52314 - 67 – 7

Component name

Cypermethric Acid Chloride

The following precautions appear in the 'PRECAUTIONS' section of label / leaflet

WASH HANDS AND EXPOSED SKIN AFTER USE

WASH SPLASHES from skin or eyes immediately with plenty of water

The following precautions appear in the 'STATUTORY CONDITIONS RELATING TO USE' box of the label / leaflet

FOR USE OF INSECTICIDE INTERMEDIATE

WEAR SUITABLE PROTECTIVE CLOTHING / OVERALL AND SYNTHETIC RUBBER / PVC GLOVES AND EYE PROTECTIONS when using.

Other information

MSDS first issued

21st May 2006

MSDS data revised

15th February 2008

Disclaimer

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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