

## Safety Data Sheet

Revision date: 25<sup>th</sup> September 2009

1st version

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### RESCUE

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

Tradename RESCUE

Design Code A15245A

Use Herbicide

Sales code

##### Company Identification

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#### 2. HAZARDS IDENTIFICATION

Irritating to skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                                   | CAS-No.     | EC-No.    | Symbol(s) | R-phrase(s)                       | Concentration     |
|---|-------------|-----------|-----------|-----------------------------------|-------------------|
| Cloquintocet-mexyl                              | 99607-70-2  | -         | Xi, N     | R43<br>R50/53                     | 1.15 % w/w        |
| pinoxaden                                       | 243973-20-8 | -         | Xn        | R20<br>R36/37<br>R52/53           | 4.59 % w/w        |
| Solvent naphtha<br>(petroleum), highly<br>arom. | 64742-94-5  | 265-198-5 | Xn, N     | R36/37/38<br>R51/53<br>R65<br>R66 | ≥ 25 - ≤ 40 % w/w |
| Tetrahydrofurfuryl<br>alcohol                   | 97-99-4     | 202-625-6 | Xi        | R36                               | ≥ 15 - ≤ 25% w/w  |

For the full text of the R phrases mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

**General advice:** Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

**Inhalation:** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

**Skin contact:** Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

**Medical advice:** There is no specific antidote available. Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Use alcohol-resistant foam or water spray.

**Extinguishing media which must not be used for safety reasons:** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards during fire fighting:** As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

**Special protective equipment for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.

**Further information:** Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Refer to protective measures listed in sections 7 and 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**Additional advice:** If the product contaminates rivers and lakes or drains inform respective authorities.

#### 7. HANDLING AND STORAGE

**Advice on safe handling:** No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

**Requirements for storage areas and containers:** No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

**Other data:** Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components                               | Exposure limit(s)               | Value type | Source   |
|--|---------------------------------|------------|----------|
| Cloquintocet-mexyl                       | 10 mg/m <sup>3</sup>            | 8 h TWA    | SYNGENTA |
| Solvent naptha (petroleum), highly arom. | 20 ppm<br>100 mg/m <sup>3</sup> | 8 h TWA    | SUPPLIER |

### ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

### PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

**Protective measures:** The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

**Respiratory protection:** No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

**Hand protection:** Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected.

Suitable material: nitrile rubber.

**Eye protection:** Eye protection is not usually required. Follow any site specific eye protection policies.

**Skin and body protection:** Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |  |
|------------------------------|--|
| <b>Form:</b>                 | clear liquid.                          |
| <b>Colour:</b>               | yellow-orange to orange-brown          |
| <b>Odour:</b>                | aromatic                               |
| <b>pH:</b>                   | 3 - 7 at 1 %w/v                        |
| <b>Flash point:</b>          | 79 °C at 101.5 kPa Pensky-Martens c.c. |
| <b>Oxidising properties:</b> | not oxidising                          |
| <b>Explosive properties:</b> | not explosive                          |
| <b>Density:</b>              | 0.98 g/ml at 20 °C                     |
| <b>Miscibility:</b>          | miscible                               |

## 10. STABILITY AND REACTIVITY

**Hazardous decomposition products:** Combustion or thermal decomposition will evolve toxic and irritant vapours.

**Hazardous reactions:** None known. Hazardous polymerisation does not occur. Stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity:** LD50 > 5,000 mg/kg

**Acute dermal toxicity:** LD 50 > 5,00 mg/kg

**Skin irritation:** Moderately irritating.

**Eye irritation:** Mild eye irritation.

**Sensitisation:** Sensitising.

### Long term toxicity

Did not show carcinogenic, tetratogenic or mutagenic effects in animal experiments.

## 12. ECOLOGICAL INFORMATION

### ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

**Bioaccumulation:** Cloquintocet-mexyl does not bioaccumulate. Pinoxaden has low potential for bioaccumulation.

**Stability in water:** Cloquintocet-mexyl is not persistent in water. Pinoxaden is not persistent in water.

**Stability in soil:** Cloquintocet-mexyl is not persistent in soil. Pinoxaden is not persistent in soil.

**Mobility:** Cloquintocet-mexyl is immobile in soil. Pinoxaden has medium mobility in soil.

## ECOTOXICITY EFFECTS

**Toxicity to fish:** LC50 *Oncorhynchus mykiss* (Rainbow trout), 17 mg/l, 96h.  
Based on test results obtained with similar product.

**Toxicity to aquatic invertebrates:** EC50 *Daphnia magna* (Water flea), 1.1 mg/l, 48 h,  
Based on test results obtained with similar product.

**Toxicity to algae:** EbC50 *Pseudokirchneriella subcapitata* (green algae)  
4.48 mg/l, 72 h  
Based on test results obtained with similar product.

ErC50 *Pseudokirchneriella subcapitata* (green algae)  
10.7 mg/l, 72 h  
Based on test results obtained with similar product.

## 13. DISPOSAL CONSIDERATIONS

**Product:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated packaging:** Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

| Rail / Road / Sea / Air<br>(RID / ADR / IMDG /<br>IATA) | Class  | UN Number | Packaging Group |
|---|--|-----------|-----------------|
|   | 9  | 3082      | III             |
| Proper Shipping Name:                                   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S., (CLOQUINTOCET-MEXYL AND SUBSTITUTED<br>BENZENOID HYDROCARBONS) |           |                 |
| Marine pollutant:                                       | Marine pollutant   |           |                 |

## 15. REGULATORY INFORMATION

|   |           |   |
|---|-----------|---|
| <b>Classifications / Hazard symbols</b> | <b>N</b>  | <b>DANGEROUS FOR THE ENVIRONMENT</b>  |
|   | <b>Xn</b> | <b>Harmful</b>  |
| <b>Risk phrases (R)</b>                 | 38        | Irritating to skin.   |
|   | 43        | May cause sensitisation by skin contact.  |
|   | 51/53     | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.             |
|   | 65        | Harmful: may cause lung damage if swallowed.  |
| <b>Safety phrases (S)</b>               | 2         | Keep out of the reach of children.  |
|   | 13        | Keep away from food, drink and animal feeding stuffs.   |
|   | 20/21     | When using, do not eat, drink or smoke.   |
|   | 35        | This material and its container must be disposed of in a safe way.                                      |
|   | 36/37     | Wear suitable protective clothing and gloves.   |
|   | 57        | Use appropriate containment to avoid environmental contamination.                                       |
|   | 62        | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
| <b>Special label</b>                    |           | To avoid risks to man and the environment, comply with the instructions for use.                        |

## 16. OTHER INFORMATION

Always read the label. Use pesticides safely.  
Product registration number: PCS No. 03682

Text of R phrases mentioned in Section 2:

**R20** Harmful by inhalation.

**R36** Irritating to eyes.

**R36/37** Irritating to eyes and respiratory system.

**R36/37/38** Irritating to eyes, respiratory system and skin.

**R43** May cause sensitisation by skin contact.

**R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R65** Harmful: may cause lung damage if swallowed.

**R66** Repeated exposure may cause skin dryness or cracking.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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