

Material Safety Data Sheet

Syllit 400 FL

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Syllit 400 FLAgriphar SA
Rue de Renory, 26/1 B-4102
Ougrée Belgium**Canadian agent**Norac Concepts Inc.
P.O. Box 31097, Guelph, ON N1H 8K1
519-821-3633**Emergency telephone number:** All hours, 613-787-5620, **ONLY** for health and environmental information.

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous ingredients | % (w/w) | ACGIH TLV | CAS No. |
|-----------------------|---------|------------|-----------|
| Dodine | 35 – 45 | Not Listed | 2439-10-3 |

Synonyms: Dodine, Syllit.**Chemical name:** Dodine: N-dodecylguanidine acetate.**Chemical family:** Guanidine fungicide.**Product use:** Agricultural fungicide**Registration number:** 28351 Pest Control Products Act.

3. HAZARDS IDENTIFICATION

Summary: Hazardous properties of all ingredients have been considered in the preparation of this MSDS. Read the entire MSDS for the complete hazard evaluation of this product.**Physical properties:** White opaque liquid with little odour.**Routes of entry:** Eyes, ingestion and inhalation.**Effects of acute exposure:** May cause severe irritation to the eyes.**Effect of chronic exposure:** None known.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Call 911 **IMMEDIATELY** for medical assistance. Give artificial respiration **ONLY** if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing **AND** no pulse.**Skin contact:** Remove contaminated clothing immediately. Flush skin with running water for a minimum of 20 minutes. If irritation persists obtain medical attention.**Eye contact:** Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists obtain medical attention.**Ingestion:** Call 911 **IMMEDIATELY** for medical assistance. If person is alert and not convulsing, rinse mouth out and give 1 cup of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in vomit, rinse mouth and administer more water.**Notes to Physician:** There is on specific antidote, treat symptomatically

5. FIRE AND EXPLOSION HAZARD DATA

Flash point: Not applicable.**Autoignition temperature:** 430 °C**Flammable limits (lower):** Not applicable.

Flammable limits (upper): Not applicable.

Extinguishing media: For large fires, apply aqueous film-forming foam or water in the form of a fog. For small fires, use carbon dioxide or dry chemical.

Fire-fighting procedures: Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by dyking.

Other fire and explosion hazards: Thermal decomposition may produce oxides of carbon and nitrogen and noxious fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear personal protective equipment as described in Section 8.

Spills, leaks or releases: For release to land, stop any further release and spread of contamination, wash hard surfaces with detergent and water, then absorb with suitable absorbent. For release to water, stop any further release and utilize damming and/or water diversion to minimize the spread of contamination. Collect the spilled material, any contaminated soil, water and absorbent, then place in a waste container for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment.

Deactivating chemicals: None known.

7. HANDLING AND STORAGE INFORMATION

Handling procedures: Use only with adequate ventilation. Avoid breathing vapours and contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

Storage requirements: Store in a cool, well-ventilated area. Keep containers tightly closed. Keep out of reach of children and pets.

Storage temperature: Do not expose to temperatures above 40°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection: Use chemical safety goggles when there is a potential for eye contact.

Skin protection: Chemical-resistant gloves and protective clothing that is impervious under conditions of use.

Respiratory protection: NIOSH/MSHA-approved respirator equipped with pesticide cartridges, if required.

Other protective equipment: Eye wash station.

Engineering controls: Provide local exhaust and/or adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White opaque liquid

Odour: Negligible

Specific gravity: 1.01

Boiling point: Not determined

Melting point: Not determined

Solubility (water): Miscible

pH: 5.8

% volatile: Not determined

Evaporation rate (ether=1): Not determined

Vapour pressure (mm Hg at 20°C): Not determined

Vapour density (air=1): Not determined

10. STABILITY AND REACTIVITY DATA

Chemical stability: Stable at room temperature.

Hazardous polymerization: Will not occur.

Conditions to avoid: Keep away from heat and ignition sources. Prolonged exposure to temperatures above 40°C may result in some decomposition of Dodine.

Incompatibility with other substances: Strong oxidizing agents, acids and bases. Avoid contact with finely divided metals.

Hazardous decomposition products: Thermal decomposition products are toxic and may include oxides of carbon and nitrogen, and irritating gases.

11. TOXICOLOGICAL INFORMATION

Summary: May cause severe irritation to eyes.

Toxicological data

Dodine

Oral LD₅₀ (rat) = 851 mg/kg

Dermal LD₅₀ (rat) = >5000 mg/kg

Inhalation LC₅₀ (rat) = 0.45 mg/L/4 hr.

Inhalation: Inhalation of mists and vapours may cause respiratory irritation, sore throat and chest pain.

Skin contact: Prolonged and repeated contact may cause skin irritation.

Eye contact: May cause severe eye irritation and risk of serious damage. Symptoms include redness, tearing, blurred vision and a burning sensation.

Ingestion: Ingestion may cause irritation of the gastrointestinal tract, nausea and abdominal pain.

Chronic effects: None known.

Carcinogenicity: The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA and NTP.

Mutagenicity: There is no evidence that this product has mutagenic potential.

Reproductive effects: Dodine did not adversely affect reproductive parameters in rats over two generations, therefore no adverse reproductive effects are anticipated.

Teratogenicity: No information is available and no adverse teratogenic effects are anticipated.

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Dodine is very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. LC50-96 hour-fish: 1.5 mg/L. 48 H-CE50 – Daphnia magna: 0.146 mg/L. IC50 72h Algae: 0.00095 – 0.0016.

Environmental effects: Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

13. DISPOSAL CONSIDERATIONS

Container Disposal: Non-refillable container. Do not reuse. Triple rinse container and place rinse water into the spray tank. If available, offer for recycling or puncture and dispose of in a sanitary landfill, or by other procedures approved by provincial and local authorities.

Waste Disposal: Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

14. TRANSPORT INFORMATION

TDG classification: Not regulated.

Transportation emergency telephone number: 613-787-5620.

15. REGULATORY INFORMATION

WHMIS classification: This product is registered under the *Pest Control Product Act* and is exempt from the requirements of WHMIS.

16. OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Norac Concepts Inc. or Agriphar SA will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This material safety data sheet is valid for three years.

Prepared by: Norac Concepts Inc. and Agriphar SA