

MATERIAL SAFETY DATA SHEET

Nutrite

Emergency Phone: 800-363-1330
Nutrite
560 Rheaume
St-Michel, QC J0L 2J0

MALLET 0.2%

Effective Date: 12-02-2013

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: 24-0-4 Pro 40% XCU® 0.2%Mallet

COMPANY IDENTIFICATION:

Nutrite
560 Rheaume
St-Michel, QC J0L 2J0

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Imidacloprid:	CAS # 138261-41-3	0.2%
1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine		
Other Ingredients, Total, Including		99.80%
Silica-Quartz (sand)		0 -30.00%
Fluoride Salts as Fluorine		0 - 1.30%
Fertilizers-Nitrates		0 -50.00%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW

Multi-colored solid granules. May cause eye irritation. Toxic to aquatic organisms.

EMERGENCY PHONE NUMBER: 800-343-1101

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause eye irritation.

SKIN: Prolonged exposure is not likely to cause significant skin irritation. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal rat LD₅₀ is >5,000 mg/kg.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. The oral LD₅₀ for rats is >5,136 mg/kg.

INHALATION: At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Rat 4-hr LC₅₀: >2.06mg/l.

EFFECTS OF OVEREXPOSURE: Long-term inhalation of dust concentrations higher than recommended PEL may cause delayed lung injury. The free silica mentioned in Section 2. is sand and little or none is present in the respirable size range.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

Imidacloprid, in animals, effects have been reported on the following organs: heart, thyroid, blood chemistry, and liver.

CANCER INFORMATION: Imidacloprid did not cause cancer in laboratory animals. The U.S. EPA has given Imidacloprid a Group E classification (evidence of non-carcinogenicity in humans).

TERATOLOGY: Rat and rabbit studies on Imidacloprid resulted in skeletal abnormalities, increased resorptions (rabbits) and reduced body weight gains at doses that were also toxic to mother animals.

REPRODUCTIVE EFFECTS: In a two-generation reproduction study in rats, Imidacloprid produced reduced mean body weights and body weight gains. No other reproductive effects were observed.

4. FIRST AID:

EYE: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advise.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

NOTE TO PHYSICIAN: No specific antidote. Treat the patient symptomatically.

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Spread out and cool, apply water if necessary.

FIRE & EXPLOSION HAZARDS: If heated to decomposition, the fertilizer contained in this product will give off toxic vapors of ammonia and formaldehyde. Under fire conditions, urea may decompose to cyanuric acid, biuret or ammonia. Dispersion of fine dust in the air may form an explosive mixture.

FIRE-FIGHTING EQUIPMENT: Use self-contained breathing apparatus with enclosed fires.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS/LEAKS: If uncontaminated, sweep or collect and use as product. If contaminated, collect in suitable containers.

WASTE DISPOSAL METHOD: Contaminated material should be disposed of in accordance with applicable local, State and Federal regulations.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORAGE: Store in a cool dry area designated specifically for pesticides. Do not store near any material intended for use or consumption by humans or animals.

HANDLING: Do not handle material near food, feed or drinking water.

STORAGE TEMPERATURE (MIN/MAX): None

SHELF LIFE: Not noted

SPECIAL SENSITIVITY: Not noted

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINES: None established.

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

EYE/FACE PROTECTION: If high dust concentrations exist, tight fitting goggles are recommended.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

RESPIRATORY PROTECTION: If dust concentrations exceed recommended PEL, use NIOSH-approved dust respirators with approval TC-21C-xxx.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Multi-colored solid granules

ODOR: Slight

BOILING POINT: Not applicable

MELTING POINT: Not applicable

VAPOR PRESSURE: Negligible

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VAPOR DENSITY: Not applicable
SOLUBILITY IN WATER: Relatively insoluble
SPECIFIC GRAVITY: Not applicable
PERCENT VOLATILITY: 0%
pH: Not applicable
VISCOSITY: Not applicable
EVAPORATION RATE: Not applicable

these results do not necessarily mean that the material is not biodegradable under environmental conditions. Material is inherently biodegradable. Reaches more than 20% biodegradation in OECD test(s) for inherent biodegradability.
Based largely or completely on information for the silica. Biodegradation is not applicable.

10. STABILITY AND REACTIVITY:

STABILITY: This is a stable material.

INCOMPATIBILITY: Alkalis, heat. Alkalis may cause ammonia release.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: For the components tested, in-vitro and animal mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING:

Based largely or completely on information for the dipropylene glycol:
Bioconcentration potential is low (BCF is <100 or Log Pow <3).
Based largely or completely on information for the silica.
Partitioning from water to n-octanol is not applicable.

DEGRADATION & PERSISTENCE:

Hydrolysis half-life of Imidacloprid is greater than 30 days at pH 7 and 25° C. The aqueous photolysis half-life is <3 hrs. The soil surface photolysis of Imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26-229 days.
Based largely or completely on information for the dipropylene glycol.
Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however,

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ECOTOXICOLOGY:

Based largely or completely on information for the active ingredient:

Aquatic organisms: Material is highly toxic to aquatic organisms on an acute basis (96-hour LC₅₀ rainbow trout is 211 mg/l; 48 hour EC₅₀ daphnia is 85 mg/L)

Birds: Japanese quail oral LD₅₀ 31 mg/kg; Bobwhite quail oral LD₅₀ 152 mg/kg; house sparrow oral LD₅₀ 41 mg/kg).

Honey bee: 48-hour contact LD₅₀ 0.078 ug/bee; 48-hour oral LD₅₀ 0.0039 ug/bee.

Based largely or completely on information for the dipropylene glycol:

Material is practically non-toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is >1000 mg/L in the most sensitive species tested).

Based largely or completely on information for the silica:
Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Follow container label instructions for disposal of wastes generated during use in compliance with product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

14. TRANSPORT INFORMATION:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

TECHNICAL SHIPPING NAME: Imidacloprid

FREIGHT CLASS BULK: Fertilizing compounds, NOI

FREIGHT CLASS PACKAGE: Fertilizing compounds, NOI

PRODUCT LABEL: Not noted

PROPER SHIPPING NAME: Not hazardous or regulated

HAZARD CLASS OR DEVISION: Non-regulated

15. REGULATORY INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific

information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of New Jersey and Pennsylvania.

OSHA HAZARD COMMUNICATION STANDARD: This product is hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

16. OTHER INFORMATION:

MSDS STATUS: New