

BIO BASIC INC.

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MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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SECTION 1. ----- CHEMICAL IDENTIFICATION-----

Product name : Forchlorfenuron (KT-30)
Product Number : FB0740(CB0122)

SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Synonyms : N-(2-Chloro-4-pyridyl)-N'-phenylurea
Formula : C₁₂H₁₀ClN₃O
Molecular Weight : 247.68 g/mol
CAS-No. EC-No. Index-No. Concentration
Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl-
68157-60-8 - - -

SECTION 3. ----- HAZARDS IDENTIFICATION -----

WHMIS Classification
Not WHMIS controlled. Not WHMIS controlled.
HMIS Classification
Health Hazard: 1
Flammability: 0
Physical hazards: 0
Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion Harmful if swallowed.

SECTION 4. ----- FIRST-AID MEASURES-----

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Flammable properties
Flash point no data available

Ignition
temperature
no data available
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7. ----- HANDLING AND STORAGE-----

Handling
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

Contains no substances with occupational exposure limit values.
Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
Handle with gloves. For prolonged or repeated contact use protective gloves.
Eye protection
Safety glasses
Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Appearance
Form crystalline
Colour white
Safety data
pH no data available
Melting point 165 - 170 °C (329 - 338 °F)
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available

Upper explosion limit no data available
Vapour pressure 4.6 hPa (3.5 mmHg) at 25 °C (77 °F)
Water solubility 0.039 g/l at 21 °C (70 °F)
Partition coefficient:
n-octanol/water
log Pow: 3.2 at 20 °C (68 °F)
Solubility 119 g/l Methanol
149 g/l Ethanol
127 g/l Acetone
2.7 g/l Chloroform

SECTION 10. -----STABILITY AND REACTIVITY -----

Storage stability
Stable under recommended storage conditions.
Materials to avoid
Strong oxidizing agents
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity
LD50 Oral - rat - male - 2,787 mg/kg
LD50 Oral - rat - female - 1,568 mg/kg
LD50 Oral - mouse - male - 2,218 mg/kg
LD50 Oral - mouse - female - 2,783 mg/kg
Inhalation: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Irritation and corrosion
Mild eye irritation
Sensitisation
no data available
Chronic exposure
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Genotoxicity in vitro - Ames test - S. typhimurium - positive
Repeated dose toxicity - rat - Oral - NOAEL (No observed adverse effect level) - 7.5 mg/kg
Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion Harmful if swallowed.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Elimination information (persistence and degradability)
no data available
Ecotoxicity effects
Toxicity to fish LC50 - Cyprinus carpio (Carp) - 8.6 mg/l
LC50 - Oncorhynchus mykiss (rainbow trout) - 9.2 mg/l
LC50 - Carassius auratus (goldfish) - 10 - 40 mg/l
Toxicity to daphnia
and other aquatic

invertebrates.

LC50 - Daphnia - 8.0 mg/l

Toxicity to algae EbC50 - Pseudokirchneriella subcapitata - 3.3 mg/l

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

SECTION 14. ----- TRANSPORT INFORMATION -----

DOT (US)

Not dangerous goods

IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl-)

Marine pollutant: No

IATA

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl-)

SECTION 15. ----- REGULATORY INFORMATION -----

TSCA Status

Not On TSCA Inventory

Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl-

CAS-No.

68157-60-8

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl-

CAS-No.

68157-60-8

WHMIS Classification

Not WHMIS controlled. Not WHMIS controlled.

SECTION 16. ----- OTHER INFORMATION -----

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BBI., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale