

Material Safety Data Sheet (MSDS)
Metro core 70 WP

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: Metribuzin 70% w/w
Trade Name: Metro core 70 WP
Chemical Name: 4- amino-6-tert-butyl-4,5-dihydro-3-methylthio-
1,2,4-triazin-5-one; 4-amino-6-tert-butyl-3-
methylthio-1,2,4-triazin-5(4H)-one
Chemical Formula: C₈H₁₄N₄OS
Molecular Weight: 214.3

PRODUCT COMPOSITION:

| Active Ingredient: | % w/w | CAS # |
|---------------------------|--------------|--------------|
| Metribuzin | 70% | [21087-64-9] |
| Inert ingredient: | up to 100 % | -- |

HAZARD IDENTIFICATION:

Harmful if swallowed. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

FIRST-AID MEASURES:

Skin Contact: Wash the affected area immediately with soap and water. Seek medical attention if necessary.

Eye Contact: Rinse out with plenty of water with the eyelid held wide open and seek medical attention.

Inhalation: Move to fresh air. Keep patient warm and at rest. Immediately seek medical attention.

Ingestion: Induce vomiting only if: a) patient is fully conscious, b) medical aid is not readily available, c) a significant amount (more than a mouthful) has been ingested and d) time since ingestion is less than 1 hour.

FIRE-FIGHTING MEASURES: -

Suitable extinguishing media: Water spray, foam, carbon dioxide or sand.

Extinguishing media which must not be used for safety reasons: None known

Special protective equipment for fire-fighting: Wear self contained breathing apparatus and protective clothing (chemical protection suit, boots and plastic or rubber gloves).

Special exposure hazards: Hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides may be released.

Other Information: Contain fire-fighting water with sand or some such bunding material.

ACCIDENTAL RELEASE MEASURES:

Personal precautionary measures:

Wear the personal protective equipment outlined in section 8 below.

Environmental-protection measures:

Keep the area isolated and do not allow contamination to enter drains or waterways.

Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority. If the product has entered a watercourse or sewer, or grossly contaminated soil or vegetation in a public place, advise police.

Procedures for cleaning/absorption:

Use mechanical handling equipment.

The spillage should be taken up with a vacuum cleaner or a suitable dust binding material taking care to avoid the formation of dust, all cleaned surfaces should then be wiped with a damp cloth. All cleaned up product and cleaning materials should then be transferred to secure containers and sent for disposal.

PHYSICAL AND CHEMICAL DATA:

Appearance: Solid/ Powder

Color: Yellow - white

Odor: Slight characteristic smell.

PH : 6.8 – 8.0 at 1 % water

Melting point/melting point range: Approx 130 °C

Boiling point/boiling point range: Not applicable

Flash Point: Not applicable

Flammability: Non-flammable

Autoflammability : Non-flammable

Oxidising properties: None

Vapour pressure: Not available

Relative density: Not available

Solubility Water/ solubility Fat solubility: Dispersible /Not available

Partition coefficient n-octanol/water: K_{ow} log P = 1.6 (PH 5.6, 20 °C)

Other Data: May cause dust explosion

STABILITY AND REACTIVITY DATA:

Stability: Stable under normal conditions of storage

Conditions to avoid: Extremes of temperature and direct sunlight.

Materials to avoid: Incompatible with bases.

Hazardous decomposition products: Evolution of ammonia under influence of alkaline substances.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

| | | |
|------------------|--------------------|--|
| Amorphous silica | Control parameters | 10mg/m ³ (TWA, inhalable dust) 4mg/m ³ (TWA, respirable dust) |
|------------------|--------------------|--|

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye protection: Wear safety goggles conforming to BS 2092.

Hand protection: Wear nitrile gauntlet type gloves.

Respiratory protection: Wear a respirator with a fine dust mask (Class P1) following the manufactures instructions for use.

Skin and body protection: Lightweight protective clothing should be worn to prevent contamination.

Industrial Hygiene: Avoid contact with product. Immediately change contaminated clothing, dispose of if decontamination is not feasible. Keep the work area clean and wash hands before finishing work.

HANDLING AND STORAGE:

Handling: Use only in area provided with appropriate ventilation. Dust may form explosive mixtures with air. Keep away from heat and sources of ignition. Keep product in original tightly closed container. Avoid inhalation of particles. Do not get on skin, eyes or clothing. Do not eat, drink or smoke when handling. Wash hands before eating, drinking or smoking.

Storage: Store in a dry area in the original containers, access should only be for authorised persons. Store away from animal foodstuffs, seeds and fertilizers. Protect from temperatures >400C.

TOXICOLOGICAL INFORMATION:

Acute toxicity:

LD50(oral, rat, male) : > 2000 mg/kg

LC50 (inhalation, rat): > 4.84 mg/l. Exposure time 4 hr.

LD50 (skin, rat) : >2000 mg/kg

Sensitisation: Non-irritant

Further toxicological information:

After eye contact slight irritant effect – does not require labelling (rabbit)

After skin irritation non-irritant

ECOLOGICAL INFORMATION:

Mobility: Not known

Degradability: Degraded very rapidly in the soil

Bioaccumulative potential: Not known

Aquatic toxicity: Rainbow Trout LC50(96hr): 64mg/l

Daphnia Magna LC50(48hr): 49.6mg/l

Algae EC50 (96hr): 0.066mg/l

DISPOSAL CONSIDERATIONS:

Waste from residues/unused products: Dispose of product concentrate and diluted product according to local waste regulation authority.

Contaminated packaging: Dispose of empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Do not re-use container for any purpose.

Further information: Contact the Local Council Authority for advice on the disposal of pesticide waste, or ask an approved waste disposal contractor.

TRANSPORT INFORMATION:

International transport regulations

UN number : 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.(70% METRIBUZIN)

ADR/RID Class : 9