

河北捷润科技有限公司

Hebei JRain Technology Co., Ltd.

Date: Apr.22th, 2024

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

Product information

Trade name METRIBUZIN TC

Usage Herbicide

Company HEBEI JRAIN TECHNOLOGY CO.,LTD.

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2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION

Classification in accordance with the EC Directive 1999/45/EC.

Harmful if swallowed.

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

Classification in accordance with CLP Regulation Annex VI, Part 3 List of harmonised classifications (EC-Regulation 790/2009)

Acute toxicity: Category 4

H302 Harmful if swallowed.

Acute aquatic toxicity, Chronic aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

2.2 LABELLING

The product is labelled in accordance with the EC Directive on dangerous substances EC-Directive 67/548, as amended.

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

Metribuzin

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R22	Harmful if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

Metribuzin



Signalwörter:

Signal word:

Warning

Hazard statements

H302	Harmful if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P501	Dispose of contents/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Technical material (TC)

CAS name 1,2,4-Triazin-5(4H)-one,
4-amino-6-tert-butyl-3-(methylthio)-1,2,4-triazin-5(4H)-
one

CAS-No. 21087-64-9


EINECS-No. 244-209-7

Index-No. 606-034-00-8

Hazardous components

R-phrases according to EC directive 67/548/EC

Hazard statements according to Regulation (EC) No. 1907/2006

Chemical Name	CAS-No. / EC-No.	Symbol(s) R-phrases(s)	Pictogram Hazard statements	Concentration [%]
Metribuzin	21087-64-9 244-209-7	Xn, N R22, R50/53	 H302, H410	>= 97,00

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Get medical attention if irritation develops and persists.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a

mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.)

Notes to physician

Treatment

Treat symptomatically.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which should not be used for safety reasons

High volume water jet

Specific hazards during fire fighting

In the event of fire the following may be released:

Hydrogen cyanide (hydrocyanic acid)

Carbon monoxide (CO)

nitrogen oxides (NOx)

Sulphur oxides

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

In the event of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media.

Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces.

Use personal protective equipment.

Remove all sources of ignition.

Environmental precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

Use mechanical handling equipment.

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Keep in suitable, closed containers for disposal.

Additional advice

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Dust may form explosive mixture in air.

Storage

Requirements for storage areas and containers

Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance max.
40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Metribuzin	21087-64-9	0,56 mg/m ³ (TWA)		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Personal protective equipment

Respiratory protection	<p>If product is handled while not enclosed, and if contact may occur: Wear respirator with a particle filter mask (protection factor 10) conforming to European Norm EN149FFP2 or EN140P2 or equivalent.</p> <p>Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.</p>
Hand protection	<p>Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.</p>
Eye protection	<p>Wear goggles conforming to EN166 (Field of Use 5 or equivalent).</p>
Skin and body protection	<p>Wear standard coverall and type 5 suit.</p> <p>Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.</p> <p>If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.</p>
Hygiene measures	<p>Avoid contact with skin, eyes and clothing.</p> <p>Keep working clothes separately.</p> <p>Wash hands before breaks and immediately after handling the product.</p> <p>Remove soiled clothing immediately and clean thoroughly before using again.</p> <p>Garments that cannot be cleaned must be destroyed (burnt).</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder
Colour	white to grey
Odour	strong, characteristic

Safety data

Melting point/range	126 °C
Flammability (solid, gas)	The product is not highly flammable.
Autoignition temperature	The product is not self-ignitable.
Minimum Ignition Energy	> 22 mJ
Dust Explosion Class	capable of causing a dust explosion (modified Hartmann tube)
Vapour pressure	< 0,02 mPa at 20 °C
Vapour pressure	< 0,05 mPa at 25 °C
Density	1,26 g/cm ³ at 20 °C
Water solubility	1,05 g/l at 20 °C
Partition coefficient: n-octanol/water	log Pow: 1,6
Solubility in other solvents	> 250 g/l at 20 °C Medium: Acetone
Solubility in other solvents	> 250 g/l at 20 °C Medium: isopropanol
Solubility in other solvents	60 g/l at 20 °C Medium: xylene
Impact Sensitivity	not impact-sensitive
Combustion number	CN2 Short flaring without spreading at 20 °C
Oxidizing properties	Oxidizing properties (solids)
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113

10. STABILITY AND REACTIVITY

Thermal decomposition	from 175 °C , Heating rate: 0,3 K/min
Hazardous reactions	No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) 322 mg/kg
Acute inhalation toxicity	LC50 (rat) > 2,045 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 5.000 mg/kg
Skin irritation	Slight irritant effect - does not require labelling. (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (rabbit) OECD Test Guideline 406, Buehler test
Assessment Mutagenicity	In vitro and in vivo mutagenicity tests do not indicate genotoxic activity.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 74,6 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to aquatic invertebrates	EC50 (Water flea (<i>Daphnia magna</i>)) 49,6 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient.
Toxicity to aquatic plants	EC50 (<i>Desmodesmus subspicatus</i>) 0,022 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient.
Toxicity to bacteria	EC50 (Activated sludge) 761 mg/l

13. DISPOSAL CONSIDERATIONS

Product

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging

■ Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-Number	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN)
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways.

Please refer to the manufacturer for further information.

IMDG

UN-Number	3077
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine Pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN)

IATA

UN-Number	3077
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(METRIBUZIN)

15. REGULATORY INFORMATION

Further information

WHO-classification: II (Moderately hazardous)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3

R22 Harmful if swallowed.

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

Text of the hazard statements mentioned in Section 3

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Reason for Revision: New safety data sheet according to Regulation (EC) 1272/2008.
See Chapters 2, 3, 15.

HEBEI JRAIN TECHNOLOGY CO.,LTD.