河 北 捷 润 科 技 有 限 公 司

H e b e i J R a i n T e c h n o l o g y C o . , L t d .

MATERIAL SAFETY DATA SHEET

Date: Nov.13th, 2024

1. Identification

Product name	dinotefuran
Other names	N-methyl-N'-nitro-N″-[(tetrahydro-3-furanyl) methyl]
Identified uses	for industry use only.
Uses advised against	no data available
Company	HEBEI JRAIN TECHNOLOGY CO.,LTD.
Address	No. 66 XIANGTAI ROAD, YUHUA DISTRICT, SHIJIAZHUANG CITY,HEBEI PROVINCE,CHINA
Telephone	+86-311-80680379
Service hours	Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours)

2. Hazard identification

Acute toxicity – Oral (Category 4)

Hazardous to the aquatic environment - acute hazard (category 1)

Hazardous to the aquatic environment - long term hazard (category 1)

Label element  (may also be black and white)

Signal word	Waring
Hazard statement(s)	H302 Harmful if swallowed
	H410 Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
Prevention	P264 Wash hands thoroughly after handling.
	P270 Do not eat, drink, or smoke when using this product.
	P273 Avoid release to the environment (if not for its intended purpose).
Response	P330 Rinse mouth.
	P391 Collect spillage.
	P301 + P317 IF SWALLOWED, Get medical help.
Storage	not applicable.

Disposal	P501 Dispose of contents/container in accordance with local regulations

3. Composition/information on ingredients

Chemical name	CAS No.	EC No.	Concentration
dinotefuran	165252-70-0	none	99.1%

4. First-aid measures

In case of skin contact: remove contaminated clothing and wash contaminated skin, hair and nails with soapy water or running water at least 15 minutes.

In case of eye contact: open the upper and lower eyelids immediately, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If inhaled: remove the person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If breathing and heartbeat stop, immediately perform cardiopulmonary resuscitation, and seek medical attention.

If swallowed: induce vomiting and do not feed anything to the unconscious person. Rinse your mouth with water. Consult a doctor.

5. Fire-fighting measures

Dangerous characteristic: harmful gas will be generated in case of fire.

Hazardous combustion products: carbon oxides, nitrogen oxides.

Suitable extinguishing media: water mist, alcohol resistant foam, dry powder, or carbon dioxide.

Special protective equipment for fire-fighters: wear gas mask, chemical protective clothing.

6. Accidental release measures

Personal precautions: use personal protective equipment, 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 and materials for containment and cleaning up: isolate contaminated

area, set warning signs around, emergency personnel should wear gas mask and chemical protective clothing. Do not directly contact with leakage, sweep up with spade, place into a dry, clean lidded

container and transport to the waste disposal sites, if there is a large leakage, collect for recycling or waste after harmless treatment.

7. Handling and storage

Safe handling: provide appropriate exhaust ventilation, take advantage of mechanization and automation as far as possible, the operator should be specialized trained, strict compliances with operating procedures, use labor protection products like corresponding overalls, self-inhalation filter gas mask. Keep away from fire and heat source. No eating and no smoking in workplace. Avoid strong oxidizer, equipped with the appropriate variety and quantity of fire-fighting equipment and leak emergency treatment equipment.

Conditions for safe storage, including incompatibility: store in cool and well-ventilated place. Keep away from fire and heat source, stored separately with strong oxidizer, edible chemicals, avoid mixing store. Storage areas should be equipped with leakage emergency treatment equipment and suitable containing material.

8. Exposure controls/personal protection

Occupational Exposure limit values: no data available
Biological limit values: no data available

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/face protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other protection: No smoking, no taking food and water. Thorough cleaning after work, do not bring the work clothes out of the workplace. Store contaminated clothes separately and use them after washing. Pay attention to personal hygiene.

Respiratory protection: Wear filter-type masks during production operations. Gas mask is used for agriculture, self-contained breathing apparatus are for emergency rescue or evacuation.

9. Physical and chemical properties

Appearance: white powder
PH Value: 9.16(10% suspension)
Melting point (ºC): 106-111
Boling point (ºC): no data available
Density: no data available
Relative vapor density (where the air is 1): no data available
Saturation vapor pressure: no data available.
Heat of combustion (KJ/mol): no data available
Critical temperature (ºC): no data available
Critical pressure (MPa): no data available
Log value of octanol/ water partition coefficient: no data available
Flash point (ºC): not applicable
Ignition temperature (ºC): no data available
Upper explosion limit %(V/V): no data available
Lower explosion limit %(V/V): no data available
Thermal decomposition temperature: no data available
Solubility: soluble in ethanol, insoluble in water.

10. Stability and reactivity

Stability: stable under recommended conditions.
Possibility of dangerous reaction: no data available
Conditions to avoid: open flame, high temperature
Materials to avoid: strong oxidizing agents
Hazardous decomposition products: no data available

11. Toxicological information

Acute toxicity: LD_{50}(oral-rat)-2275 mg/kg

LD_{50}(Dermal-rat)- > 2275 mg/kg

LD_{50}(Inhale-rat)- > 4.09 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

Specific target organ toxicity-single exposure: no data available

Specific target organ toxicity-repeated exposure: no data available

Aspiration hazard: no data available

12. Ecological information

Toxicity to fish: LC_{50}-100mg/L 96h

Toxicity to water lea and other aquatic invertebrates: EC_{50}-0.0721mg/L 48h

Toxicity to aquatic plant(algae): EC_{50}-100mg/L 96h

Persistence and biodegradability: no data available

Toxicity to microorganisms: no data available

13. Disposal considerations

Product: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging: Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Other information: observe local regulations before disposition.

14. Transport information

This product is not dangerous product subject to imo imdg code.
Its package and transport conforms to the requirement of sea transport.

15. Regulatory information

Domestic chemical safety management regulations: “Hazardous Chemical Materials Safety Management Regulations” (No. 591st decree of the State Council, 2011) make requirement of safe handling, production, storage, transport, loading and unloading of hazardous chemicals.
International Law: UN “Recommendation on the Transport of Dangerous goods Model Regulations” (Rev. 21), UN “Globally Harmonized System of Classification and labelling of Chemicals” (Rev.8) etc.

16. Other information

Compilation and revision information: This edition is version 1.0, compiled in accordance with GB/T 16483-2008, GB/T 17519-2013, and GB 30000 series classification standards.

Disclaimer: The information in this SDS is only applicable to the specified products, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This SDS only provides information on product safety for those who have received appropriate professional training to use the product. Users of this SDS must make independent judgments on the applicability of the SDS. The writer of this SDS will not be held responsible for any harm caused by the use of this SDS.

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