## Chemical Book India

YK2	X	Chem	ical Safety	Data Shee	t MSDS / S	DS			
Dithianon SDS Revision Date:2024-04-25 Revision Number:1									
	Section 2 Section 10	Section 3 Section 11	Section 4 Section 12	Section 5 Section 13	Section 6 Section 14	Section 7 Section 15	Section 8 Section 16		
SECTION 1: Identification of the substance/mixture and of the company/undertaking Product identifier Product name: Dithianon									
CAS:		3347-22-6 s of the substance or mixture and uses advised against							
Relevant identified		For R&D use only. Not for medicinal, household or other use.							
uses: Uses advised against:		none							
Company Identification									
Company:		Chemicalbook.in							
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## **SECTION 2: Hazards identification**

## Classification of the substance or mixture

Acute toxicity - Category 4, Oral Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

#### GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Warning

### Hazard statement(s)

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

### Precautionary statement(s)

### Prevention

P264 Wash ... thoroughly after handling.P270 Do not eat, drink or smoke when using this product.P273 Avoid release to the environment.

### Response

P301+P317 IF SWALLOWED: Get medical help. P330 Rinse mouth. P391 Collect spillage.

#### Storage

none

## Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards which do not result in classification

no data available

SECTION 3: Composition/information on ingredients

#### Substance

Chemical name:	Dithianon
Common names and synonyms:	Dithianon
CAS number:	3347-22-6
EC number:	222-098-6
Concentration:	100%

## **SECTION 4: First aid measures**

#### Description of necessary first-aid measures

#### lf inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### Most important symptoms/effects, acute and delayed

no data available

#### Indication of immediate medical attention and special treatment needed, if necessary

Basic treatment: Establish a patent airway. Suction if necessary. Watch for signs of respiratory insufficiency and assist ventilations if needed. Administer oxygen by nonrebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary . Monitor for shock and treat if necessary . Anticipate seizures and treat if necessary . For eye contamination, flush eyes immediately

with water. Irrigate each eye continuously with normal saline during transport. Do not use emetics. For ingestion, rinse mouth and administer 5 ml/kg up to 200 ml of water for dilution if the patient can swallow, has a strong gag reflex, and does not drool. Cover skin burns with dry sterile dressings after decontamination. Poison A and B

## **SECTION 5: Firefighting measures**

#### Suitable extinguishing media

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

#### Specific hazards arising from the chemical

no data available

#### Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

If a spill occurs, clean it up promptly. Don't wash it away. Instead, sprinkle the spill with sawdust, vermiculite, or kitty litter. Sweep it into a plastic garbage bag, and dispose of it as directed on the pesticide product label.

#### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### Conditions for safe storage, including any incompatibilities

Safe Storage of Pesticides. Always store pesticides in their original containers, complete with labels that list ingredients, directions for use, and first aid steps in case of accidental poisoning. Never store pesticides in cabinets with or near food, animal feed, or medical supplies. Do not store pesticides in places where flooding is possible or in places where they might spill or leak into wells, drains, ground water, or surface water.

## SECTION 8: Exposure controls/personal protection

**Control parameters** 

### Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

### Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. 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.

### **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

## Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state:	Gray-brown needles from acetone. Odorless.		
Colour:	Dark brown crystals, with a coppery luster		
Odour:	Odorless		
Melting point/freezing point:	220°C		
Boiling point or initial boiling point and boiling range:	402.1°C at 760 mmHg		
Flammability:	no data available		
Lower and upper explosion limit/flammability limit:	no data available		
Flash point:	197°C		
Auto-ignition temperature:	no data available		
Decomposition temperature:	no data available		
pH:	no data available		
Kinematic viscosity:	no data available		
Solubility:	Sol in dioxane, chlorobenzene		
Partition coefficient n- octanol/water:	log Kow = 2.84		

Vapour pressure:2.03X10-11 mm Hg at 25 deg CDensity and/or<br/>relative density:1.65 g/cm3Relative vapour<br/>density:no data availableParticle<br/>characteristics:no data available

## **SECTION 10: Stability and reactivity**

Reactivity

no data available

## Chemical stability

Stable up to 80 deg C.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

Incompatible with petroleum oils, alkaline materials, and sulfur-containing compounds.

## Hazardous decomposition products

When heated to decomposition it emits very toxic fumes of /hydrogen cyanide and nitrogen and sulfur oxides/.

## SECTION 11: Toxicological information Acute toxicity

Oral: LD50 Rat oral 638 mg/kg Inhalation: LC50 Rat inhalation 2.1 mg/L air/4 hr Dermal: LD50 Rat percutaneous >2000 mg/kg

Skin corrosion/irritation

no data available

## Serious eye damage/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

## STOT-single exposure

no data available

## STOT-repeated exposure

no data available

## Aspiration hazard

no data available

## SECTION 12: Ecological information

#### Toxicity

Toxicity to fish: LC50 /Pimephales promelas/ (Fathead minnow, weight 0.9 g) 165 ug/L/96 hr at 18 deg C (95% confidence limit 123-223 ug/L) /Technical material/ /Conditions of bioassay not specified in source examined

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

#### Persistence and degradability

no data available

### Bioaccumulative potential

An estimated BCF of 85 was calculated for dithianon(SRC), using a log Kow of 2.84(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is moderate(SRC), provided the compound is not metabolized by the organism(SRC).

### Mobility in soil

The Koc of dithianon is estimated as 840(SRC), using a log Kow of 2.84(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that dithianon is expected to have low mobility in soil. Dithianon (3.85 mg) applied to a 15X15X15 cm alkaline sandy loam core (pH 8-9; 1-2% organic content) was immobilized in the top 2 cm of the soil(4). No leaching occurred after several weeks of irrigation(4).

### Other adverse effects

no data available

# SECTION 13: Disposal considerations

Disposal methods

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.

## **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

### **UN Proper Shipping Name**

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

### Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

### Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

### Environmental hazards

ADR/RID: Yes IMDG: Yes IATA: Yes

### Special precautions for user

no data available

#### Transport in bulk according to IMO instruments

no data available

## **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Listed.

### EC Inventory

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

(PICCS)

Listed.

Vietnam National Chemical Inventory

Listed.

IECSC)

Listed.

Korea Existing Chemicals List (KECL)

Listed.

## **SECTION 16: Other information**

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=O&request\_locale=en

CAWEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

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