

Material Safety Data Sheet

Dicamba 98% TC

1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

Product Name: **Dicamba 98% tech**

Supplier: Shanghai Tenglong Agrochem Co., Ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS no.	% (w/w)	Symbol	R phrases
Dicamba	1918-00-9	>98	Xn, N	22-41-52/53

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: Harmful by inhalation in contact with skin and if swallowed

Environmental hazards: None Effect(s) of (over) exposure.

Symptom(s) of (over)exposure

Inhalation: Material may be irritating to mucous membranes and upperrespiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

Skin contact: May cause skin irritation. May be harmful if absorbed through the skin.

Eye contact: Risk of serious damage to eyes

4. FIRST AID MEASURES

SKIN CONTACT: Take off contaminated clothes. Wash skin with soap and copious amounts of water.

EYE CONTACT: Rinse eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call physician.

INGESTION, INHALATION: If swallowed, wash out mouth with water, provided person is conscious. Consult a doctor. If inhaled, remove from exposure to fresh air. If required, provide artificial respiration. Keep patient warm. Consult a doctor if symptoms persist.

GENERAL INFORMATION : Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Fight fire with water spray, CO2 or powder. Fight larger fires with water spray or alcohol resistant foam.

Hazardous thermal decomposition and combustion products : Chlorous gases.

Special fire fighting procedures: None

Protection of fire-fighters: Fire-fighters must wear self contained breathing



equipments and impervious clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.

Do not swallow.

Do not breathe dust.

Environmental precautions: Do not allow to enter sewers/surface or ground water

Methods for cleaning up: Sweep up, place in a bag and hold for waste disposal. Ensure adequate ventilation. Avoid raising dust.

7. HANDLING AND STORAGE

Handling: Use with adequate ventilation.

Keep containers closed.

Storage: room temperature

Packaging materials: Glass or plastic containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Safety shower and eye bath. Mechanical exhaust required.

Hygienic measures: Do not eat, drink and/or smoke during work. Wash after handling

Personal protection

Respiratory system: Do not inhale powder. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Skin and body: Use protective clothing

Hands: Use rubber gloves

Eyes: Use eye/face protection

Occupational exposure limits

TLV (USA) : --

"MAK" (Germany) : --

MAC (Netherlands) : --

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystalline powder

Colour: Colourless

Odour: Slightly odour

Melting point: 112 – 116 °C

Boiling point: Decomposes before boiling

Density: 1.48g/cm³

Solubility in water (20°C): 4.5 g/l

Flash point: 119 °C

10. STABILITY AND REACTIVITY

Stability: stable at room temperature

Conditions to avoid: Extreme temperature.

Materials to avoid: strong oxidizing agents

Hazardous decomposition products: chlorous gases, carbon monoxide, carbon dioxide.

Hazardous polymerization: None

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral: LD50 (rat): 1039 mg/kg

LD50 (mouse): 1190 mg/kg

LD50 (rabbit): 2000 mg/kg

LD50 (guinea pig): 3000 mg/kg

Inhalation: LC50 rat > 9.6 ml/l (exposure time: 4 hours)

Eye irritation: May cause severe eye irritation

Skin irritation: LD50 (rat) : > 1000 mg/kg

Carcinogenicity: None

Mutagenicity: rat (17800 Lg/kg, intraperitoneal): DNA damage

rat (200 mg/l, lymphocyte): unscheduled DNA synthesis

12. ECOLOGICAL INFORMATION

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Mobility: Good water soluble

Ecotoxicity: Dicamba is slightly toxic to birds:

LD50 (mallard ducks): > 2009 mg/kg

LC50 (mallards & bobwhite quail, 8 days): >10000 ppm

Dicamba is of low toxicity for fish:

LC50 (rainbow trout, 96 hours): 135.4 mg/l ,

LC50 (rainbow trout, 48 hours): 35 mg/l

LC50 (bluegill sunfish, 96 hours): 135.3 mg/l

LC50 (bluegill sunfish, 48 hours): 40 mg/l

LC50 (grass shrimp, 96 hours): > 100 mg/l

LC50 (fiddler crab, 96 hours): >180 mg/l

LC50 (daphnia magna, 48 hours): 110.7 mg/l

LC50: the concentration of a chemical in air or water, that kills half of the experimental animals exposed to a set time period.

13. DISPOSAL CONSIDERATIONS

Product:

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations.



We recommend that you contact either the authorities in charge of approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

Methods of disposal: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

14. TRANSPORT INFORMATION

UN Number: 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

Road/Railway/Inland waterways

ADR/RID/ADNR Class: 9

Packaging group: III

Sea

IMDG Class: 9

Packaging group: III

Air

IATA Class: 9

Packaging group: III

Packing instructions (PA):

Packing instructions (CAO):

15. REGULATORY INFORMATION

Label name: HARMFUL, DANGEROUS FOR THE ENVIRONMENT

Hazard symbol: Xn, N

Risk phrases: 22: Harmful if swallowed.

41: Risk of serious damage to eyes.

52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

61: Avoid release to the environment. Refer to special instructions.National regulations

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a



copy of which is sent to our customers and is also available on request.

Tenglong Agrochem