



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

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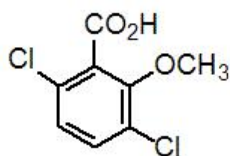
1. Chemical Product Identification

Common Name: Dicamba 97% TC

Molecular Formula: C₈H₆Cl₂O₃

Molecular Weight: 221.04

Structural Formula:



Chemical Name: 3,6-dichloro-o-anisic acid

Form: Crystalline powder

Color: Off-white

Odor: Odorless

CAS No.: 1918-00-9

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Dicamba	1918-00-9	97
Other ingredients	---	3

3. Hazards Identification

Symptoms of Acute Exposure: Irritating to eyes.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic



gases.

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. First Aid Measures

Skin contact: Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Inhalation: No specific intervention is indicated as the compound is not likely to be hazardous.

Ingestion: Call a physician or poison control centre immediately. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

5. Fire-Fighting Measures

Fire and Explosion Hazard: Dust may form explosive mixture in air.

Suitable extinguishing media : Water spray, Foam, Dry chemical

Firefighting Instructions: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Evacuate personnel and keep upwind of fire. Burning chemicals may produce by-products more toxic than the original material. Do not allow runoff from fire fighting to enter drains or water courses. Cool containers/tanks with water spray.

6. Accidental Release Measures

Safeguards (Personnel): Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Spill Cleanup: Dike large spills using absorbent or impervious materials such as sand or clay. Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures: Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/regulations.



7. Handling And Storage

Handling (Personnel): Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

8. Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection: Such equipment should only be used if the employer has a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing and medical exams.

Protective gloves: safety gloves.

Eye protection: Wear impact resistant eye protection with side shields or goggles. Wear a face shield along with goggles when working with corrosive, highly irritating or toxic substances.

Industrial hygiene: Industrial hygienists are available to answer your questions regarding the control of chemical exposures using exhaust ventilation, special work practices, good housekeeping, good hygiene practices, and personal protective equipment including respirators. In addition, they can help to interpret the results of industrial hygiene survey data.

9. Physical and Chemical Properties

Appearance: Off-white crystalline powder

pH: 1.0-3.5

Loss on drying: $\leq 1.0\%$

Melting point: 115°C

Boiling point: Decomposes before boiling

Bulk density: 1.484 g/ml

Partition Coefficient: $\log P = -1.88$ (at pH 7, 20°C)

Vapour pressure: 1.67 mPa (25°C)



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Solubility: 250 g/l in water (20°C); In organic solvents: 500 g/l in acetone, 2.8 g/l in hexane, 500 g/l in ethyl acetate, 500 g/l in methanol (all at 20°C).

10. Stability and Reactivity

Stability: Stable at normal temperatures and storage conditions.

Conditions to avoid: None known.

Incompatibility: None reasonably foreseeable.

Hazardous reactions: Polymerization will not occur.

11. Toxicological Information

Acute oral LD50 for rats: 1581 a.i.mg/kg.

Acute dermal LD50 for rabbits: >2000 a.i.mg/kg.

Inhalation LC50 (4 h) for rats: 4.46 a.i. mg/L.

Skin irritation: Moderately irritating to skin (rabbits).

Eye irritation: Extremely irritating and corrosive to eyes (rabbits).

Skin sensitization: Not a skin sensitiser (guinea pigs).

12. Ecological And Ecotoxicological Information

Effect on birds: moderate toxicity to birds, acute oral LD50 for Mallard ducks is 1373 a.i.mg/kg.

Effect on fish: low toxicity to fish, acute 96 hour LC50 for Rainbow trout is >100 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is >41.0 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 for Scenedemus subspicatus is 1.8 a.i.mg/L.

Effect on honeybees: low toxicity to honeybees, contact acute 48 hour LD50 is >100 a.i.µg/bee; oral acute 48 hour LD50 is >100 a.i.µg/bee.

Effect on earthworms: low toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is >1000 a.i.mg/kg.

13. Disposal Considerations

Waste Disposal: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.



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Dispose of the product in accordance with label directions.

Container disposal: Container Refilling and Disposal: Refer to the product label for instructions.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.