



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Paraquat Dichloride Technical
CAS No : 1910-42-5
Use : Herbicide
Company Info : M/s HPM Chemicals & Fertilizers Ltd
209-210, Anupam Bhawan, Commercial Complex
Azadpur, Delhi-110033
Telephone : (011)-45071800, 899
Fax : (011)- 27681800
Website : www.hpmindia.com
E-mail : info@hpmindia.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Concentration
Atrazine a.i.	42.00% min.
Other associates impurities	58.00% max

3. HAZARDS IDENTIFICATION OF PREPARATION

Inhalation: Cough. Laboured breathing. Sore throat.
Skin contact: Harmful if absorbed through skin..
Eyes contact: Causes substantial but temporary eye injury
Ingestion: May be fatal if swallowed.

4. FIRST AID MEASURES

Inhalation: Fresh air, rest. Half-upright position. Artificial respiration if indicated. Refer for medical attention. Skin contact: Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists , repeat flushing. Obtain medical attention immediately.
Eyes contact: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor
Ingestion: Rinse mouth. Give plenty of water or bentonite clay in water, or give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

5. ACCIDENTIAL RELEASE



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6. FIRE-FIGHTING MEASURES

Fire and explosion: Flash Point: 194⁰F

Flammable Limites(% in Air): Lower: % Not Applicable Upper: % Not Applicable

Autoignition Temperature: >1157⁰F

Flammability: Combustible liquid Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing media: In case of fire in the surroundings: powder, water spray, foam, carbon dioxide. Wear full protective clothing and self-contained breathing apparatus.

Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

7. HANDLING AND STORAGE

Handling : Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes.

Storage : Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical protective measures : None
Exposure controls limits : Not Established
Respiratory protection : Wear suitable mask
Hand protection : Wear impervious gloves
Eye protection : Wear flash proof and dust resistant goggles.
Skin protection : Wear impervious clothing and closed foot ware.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue and green liquid



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Density: 1.15
Vapor pressure: < 0.1mPa
pH: 2.0 –6.0

10. STABILITY AND REACTIVITY

Stable under normal use and storage conditions. The substance decomposes under influence of UV light producing toxic and corrosive fumes including nitrogen oxides, hydrogen chloride. Reacts with strong oxidants. Reacts with bases (hydrolysis). Unformulated products are corrosive to common metals. Inactivated by inert clays and by anionic surfactants.

11. TOXICOLOGICAL INFORMATION

Acute toxicity oral to female rats: LD50 is 90.9mg/kg
Acute toxicity oral to male rats: LD50 is 88.0mg/kg
Acute toxicity dermal to female rats: LD50 is 287mg/kg
Acute toxicity dermal to male rats: LD50 is 237mg/kg
Eye Contact: Moderately Irritation (Rabbit)
Skin Contact: Slightly Irritation (Rabbit)
Skin Sensitization: Not a skin sensitizer in animal tests. Other Toxicity Information: the health hazard assessment is based on the results of animal toxicity testing and reports of accidental human exposures.

12 ECOLOGICAL INFORMATION

Summary of Effects: Paraquat dichloride is toxic to wildlife.
Eco=Chronic Toxicity: Paraquat dichloride: Not Available.
Environmental Fate: No data available for the formulation. The information presented here is for the active ingredient, paraquat dichloride.

13. DISPOSAL CONSIDERATION

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed on site (by use according to the label) or at an approved waste disposal facility. Further information can be obtained from the EPA or the equivalent state and local agencies.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Check with EPA,



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State, and local authorities for the current regulations applicable to your area for disposal of waste containers.

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.