



SHREEJI PESTICIDES PVT. LTD
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

Material safety data sheet Paraquat dichloride 24% SL

1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name : Paraquat dichloride 24% SL
Chemical Name : 1, 1'-dimethyl-4, 4'-bipyridinium dichloride
Uses : Herbicide

Molecular Formula : C₁₂H₁₄Cl₂N₂
Manufacturer : SHREEJI PESTICIDES PVT LTD.
Address : Plot No. 69/P, Village - Manjusar, Tal. Savli, Dist. Vadodara - 391775
Gujarat, India :
Tele Fax Number 91 2667 264701

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/W)
Paraquat dichloride A.I.	1910-42-5	24.00 %
Other ingredients	-	76.00 %

3. HEALTH HAZARDS IDENTIFICATION

Eye contact : May cause injury.
Skin contact : Contact with irritated skin, or a cut, or repeated contact with intact skin will cause severe irritation and may result in poisoning.
Ingestion : In animals can cause excitability and lung congestion, which in some cases leads to convulsions, incoordination, and death by respiratory failure.
Inhalation : Inhalation exposure may cause irritation, nosebleed and may lead to poisoning.

4. FIRST AID MEASURES

Eyes : Hold eye open and rinse with plenty of water for 15 minutes. If irritation continues, call a doctor.
Skin : Take off contaminated clothing. Wash skin with plenty of soap and water for 20 minutes. If irritation persists, repeat flushing. Get medical attention if irritation persists.
Ingestion : Treatment may include binding Paraquat in the gut with suspensions of clay or charcoal and removal of Paraquat from the blood by prolonged charcoal.



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Inhalation	Hemodialysis. Do not administer oxygen. Induce vomiting. Get medical attention. Remove person from exposure area to fresh air. If not breathing difficulty, give artificial respiration, preferably mouth to mouth. Do not use supplemental oxygen get medical.
Notes to physician	give up to 1 liter of 15 % aqueous suspension of Fuller's Earth orally or via gastric tube, together with suitable purgative .Do not use supplemental oxygen.

5. FIRE FIGHTING MEASURES

Fire and explosion Hazard Keep fire exposed containers cool by spraying with water.

Suitable Extinguishing media Use dry chemicals. Foam, CO₂ or dry chemical. Soft stream of water fog only if needed.

Firefighting Precaution Isolate fire area. Evacuate down wind. Wear self-contained breathing apparatus pressure and protective gears. Do not smoke gasses or vapor generated.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in properly labeled disposal container. Dike to confine spill and absorb with non – combustible absorbent like clay, sand or soil. Vacuum shovel or pump waste in to drum and label contents for disposal. Large spills may be neutralized with bentonite or other absorbent clays. After removal, flush contaminated area thoroughly with water. Do not allow any material to run off in soil, drainage systems or bodies of water. Notify and consult with proper regulatory authorities.

7. HANDLING AND STORAGE

Handling Do not smoke, drink or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Before removing gloves wash them with soap and water. Eliminate all sources of ignition from areas where the material is handles or used. Good personal hygiene procedures must be practiced.

Storage Place in cool and ventilated areas. Store only in closed, properly-labeled containers, in area designed specifically for pesticides. Keep out of the reach of children and unauthorized persons. Keep away from excessive heat and open flame. Properly keep away from food and drink. Incompatible with alkaline materials. Some alkyl sulfate of alkyl aryl sulphonate wetting agents are incompatible.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	Avoid inhalation of pesticides mist
Eye protection	Safety goggles or face-shield is recommended.
Skin Protection	Chemical resistant gloves and appropriate protective clothing (arm and leg protection must be provided) necessary to prevent skin contact with the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Violet
Physical state	Dark greenish blue liquid
Doer	Characteristic Pyridine base
Vapour pressure	<0.1 mPa.
Density/Specific Gravity	1.072 at 20°C
Water Solubility	620 g/l at 250C

10. STABILITY AND REACTIVITY

Stability	Stable at room temperatures
Conditions To Avoid	Exposure to flames. May emit toxic fumes of NOx upon decomposition
Materials to avoid	alkaline conditions, avoid strong oxidants
Hazardous Decomposition Products	Thermal decomposition products may be hazardous

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rats) 707 mg/kg for males 612 mg/kg for females
Acute Dermal Toxicity	LD50 (Rats) 590 mg/kg b.w
Acute Inhalation	No vapor toxicity, extreme exposure may cause nose bleeding
Eye Irritation	Rabbit: Irritant
Skin Irritant	Rabbit: Irritant



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12. ECOLOGICAL INFORMATION

Birds	Acute oral LD50 for (8 d) for Mallard ducks 199 mg/kg LD50 for Bobwhite Quail 175 mg/kg
Fish	LC50 (96 h) for Rainbow trout 26 mg/l, Mirror carp 135 mg/l
Bees	Moderately toxic to bees.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Must be disposed of by special means: suitable incineration and chemical treatment, in accordance with local regulations. Do not discharge into drains or the environment.

14. TRANSPORT INFORMATION

Rail/Road (RID/ADR)

Proper Shipper Name : CORROSIVE LIQUID ,TOXIC N.O.S
Class : 6.1
UN No. : 3016
Packing Group : III

Sea (IMDG – Code)

Proper Shipper Name : CORROSIVE LIQUID ,TOXIC N.O.S
Class : 6.1
UN No. : 3016
Packing Group : III
Marine Pollutant : Yes

Air (ICAO/IATA)

Proper Shipper Name : CORROSIVE LIQUID ,TOXIC N.O.S
Class : 6.1
UN No. : 3016
Packing Group : III

Packing Instructions : Packing instructions on sea: P001/LP01 Packing instructions on air: Y611/618



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15. REGULATORY INFORMATION

Hazardous symbol	Xn	Harmful
Special Risks (R-Phrases)	R22	Harmful if swallowed
	R21	Harmful in contact with skin
	R38	Irritating to skin
	R41	Risk of serious damage to eyes
Safety Advice (S-Phrases)	S 1/2	Keep locked up / Keep out of reach children.
	S28	After contact with skin, wash immediately with plenty of water and soap
	S36/37	Wear suitable protective clothing and gloves
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical help
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
International WHO Toxicity Classification	II	Moderately Hazardous

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.