

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name : Paraguat dichloride 24%SL

Common Name : Paraquat dichloride

IUPAC Name : 1,1'-dimethyl-4,4'-bipyridinediium dichloride;1,1'-

dimethyl-4,4'-bipyridinium dichloride;1,1'-dimethyl-4,4'-

bipyridylium dichloride

Chemical Abstracts

Name

: 1,1'-dimethyl-4,4'-bipyridinium dichloride

CAS No. : [1910-42-5]

Chemical formula : $C_{12}H_{14}Cl_2N_2$

Molecular weight : 257.2

Chemical Family : Bipyridylium

Use : Herbicides

Company Name : Sevrin Chemicals Pvt. Ltd

Address : Plot No B-1,2,3,4 Industrial Area, Focal Point,

Malaut, Punjab 152107

Phone No. : 9779775001

E-mail : sevrinchemicals3@gmail.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name CAS No. Content % (w/w)

Paraquat dicholoride [1910-42-5] 24%

Other - 76 %



3. HAZARDS IDENTIFICATION

Classification of the

: Acute toxicity, Category 4

Hazardous Chemical:

Reproductive toxicity, Category 1B

Signal Word:

: DANGER.

Hazard Statement(s):

: H302 Harmful if swallowed.

Hazards

H360Df May damage the unborn child. Suspected

of damaging

Fertility.

Precautionary Statement(s):

: P201 Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing/

Eye protection/ face protection.

P308 + P313 IF exposed or concerned: Get medical

Advice/attention.

Skin and Eyes

: Avoid contact with skin and eyes.

Entry route

: Ingestion, Inhalation, Contact with eye or skin.

Symptoms of poisoning

: No cases of human poisoning are on record. The poisoning symptoms observed for laboratory

animals were non-specific.

4. FIRST AID MEASURES

Ingestion

: If swallowed, seek medical advice immediately

DO NOT induce vomiting.

Eye

: Rinse immediately with plenty of water, also under the Eyelids, for at least 15 minutes. Remove contact

lenses. Immediate medical attention is required

Skin

: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing

before reuse

Inhalation

: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poison Information



Centre immediately

Advice to Physician : No specific Antidote. Treat symptomatically.

5.	FIRE	FIGHTING	3 MFASI	JRFS
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Specific Hazard: There is no risk of an explosion from this product

under normal circumstances if involved in a fire.

water stream as it may scatter and spread fire.

Extinguishing Media : Small fires: Use water spray, alcohol-resistant foam,

dry chemical or carbon dioxide. DO NOT use a solid

Large fires: Use alcohol-resistant foam or water spray.

DO NOT use a solid water stream as it may scatter

and spread fire.

Hazard From

Combustion products

: As the product contains combustible organic components, fire will produce dense black smoke

containing hazardous products of combustion.

Exposure to decomposition products may be a hazard

to health.

Protective equipment: Wear full protective clothing and self-contained

breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

In Case of Emergency : In case of spillage it is important to take all steps

necessary to

Avoid eve and skin contact

• Avoid contamination of waterways Wear full length

clothing and PVC gloves, Keep all bystanders away

Clean up Procedures : Procedure for spill

(1) Keep all bystanders away

(2) Wear full length clothing and PVC gloves

(3) Reposition any leaking containers so as to

minimise further leakage

(4) Dam and absorb spill with an absorbent material

(e.g. sand or soil)

(5) Shovel the absorbed spill into drums

(6) Disposal of the absorbed material will depend upon

the extent of the spill

• For quantities up to 50 L of product bury in a secure



landfill site

• For quantities greater than 50 L seek advice from the Manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established

(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

7. HANDLING AND STORAGE

Handling : Avoid contact with eyes and skin. Do not inhale spray

mist. Wash hands after use.

Storage : Store in tightly sealed original containers in a dry

secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of

children, unauthorised persons and animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: In the Workplace: ensure ventilation is adequate and

that air concentrations of components are controlled below quote Workplace Exposure Standards. Keep containers closed when not in use. No special

requirements. Product is used outdoors.

Ingestion : DO NOT eat, drink or apply cosmetics, where there is a

potential for exposure to the product.

Eye Protection : Safety goggles, chemical splash goggles or face shield

for eyes protection should be used. Safety showers and

eye wash should be easily available.

Skin Protection : Chemical resistant gloves, coveralls socks, apron and

chemical resistant foot covering should always be used

while handling the product.

Respiratory protection: Always use NIOSH/MSHA approved respiratory

protection equipment with a universal filter type

including particle filter.

General Protection: Avoid contact with eyes and skin. While handling the

product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash

hands, arms and face thoroughly with soap and water.



After each day's use, wash gloves and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Violet

Physical state : Dark greenish blue liquid

Vapour pressure : <0.1 mPa.

Density/Specific

Gravity

Water solubility

: 1.072 at 20 °C

: 620 g/l at 25°C

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal use and storage conditions.

Conditions to Avoid : See "Unusual Fire, Explosion and Reactivity Hazards"

statement,

Incompatible Materials : Strong bases, Strong acids, Strong oxidizing agents

Hazardous: Can decompose at high temperatures forming toxic

decomposition products

gases.

Hazardous Reactions: No polymerization will occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ : Rat:>707mg/kg(male)

590 mg/kg(female)

Acute Dermal LD₅₀ : Rat: 590 mg/kg

Acute Inhalation LC_{50} : No vapour toxicity, extreme exposure

May Couse nose bleeding

Skin Irritation : Irritant (Rabbit) **Eve Irritation** : Irritant (Rabbit)

Skin Sensitization : Not a skin sensitizer (Guinea pig)



12. ECOLOGICAL INFORMATION

Birds

Mallard duck: Acute oral LD50: 199mg/kg(8d)Bobwhite quail: Acute oral LD50: 175mg/kgMallard duck: Acute oral LC50: 4048mg/kg(5d)Bobwhite quail: Acute oral LC50: 981mg/kg(5d)

Fish

 Rainbow trout
 :
 LC50: 32 mg/l(96h)

 mirror carp
 :
 LC50: 135 mg/l(96h)

 Daphnia magna
 : EC50:6.1mg/l(48h)

 Bees LD50
 : (Oral):36 μg/bee (72h)

(Contact): 150 µg/bee (72h)

13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of this product only by using according to the

label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add

rinsing's to spray tank.

Disposal of

empty

Containers

: (1) Rinse containers before disposal. Add rinsing's to the spray tank. DO NOT dispose of undiluted chemicals on

site.

(2) Dispose of rinsed, empty containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product

14. TRANSPORT INFORMATION

Shipping Name : CORROSIVE LIQUID ,TOXIC N.O.S (Paraquat

should not be burnt.

dichloride)

UN No. : 3016
Class : 6.1
Packing group : III
Marine : Yes



pollutant

15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

Risk Phrase R22, harmful if swallowed. R38, irritating to skin. R41, risk of serious

damage to eyes. R43 may cause sensitisation by skin contact.

Safety S 1/2: Keep locked up and out of reach of children.

phrase S 26: In case of contact with eyes rinse immediately with plenty of

water and seek medical advice.

S 35: The material and its container must be disposed-off in a safe

way.

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 resented 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 produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

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Date: 11/03/2019