



ULINK AGRITECH PRIVATE LIMITED
MATERIAL SAFETY DATA SHEET : KLEENWEED

1: IDENTIFICATION

Chemical Name	2,4-D dimethyl ammonium salt	Trade Name	KLEENWEED
Synonyms	2-4-D Amine Salt 58% SL	Molecular Formula	<chem>C10H13Cl2NO3</chem>
Uses	Herbicides		
Manufacturer/ Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
2-4-D Amine Salt	2008-39-1	58.0%
Other Ingredients	-	42.0%

3: HAZARD IDENTIFICATION

Hazard Category: Acute toxicity, oral Category 4; STOT SE 3 category 3;
Serious eye damage/eye irritation Category 1, Skin corrosion/irritation Category 1
Aquatic Acute Category 1; Aquatic Chronic Category 1

4: FIRST AID MEASURES

General: Have a product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation: Move patients to fresh air. Keep the patients calm. Allow patients to rest. Immediately seek medical attention.
Ingestion: Rinse mouth with water and give plenty of water to drink. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.
Skin Contact: In case of contact with product, immediately rinse with plenty of water. Remove and isolate contaminated clothing and shoes. Seek medical attention.
Eye Contact: Rinse immediately with plenty of water for several minutes with eyes wide open. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.
Note to physician: No specific antidote available. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, foam, dry powder, carbon dioxide
Unsuitable Extinguishing Media: Solid water stream as it may scatter and spread fire.
Specific Hazards: In case of fire, product may produce dense black smoke containing hazardous products of combustion as it contain combustible organic ingredients and exposure to this smoke may be a hazard to health.
Hazardous Thermal (de)composition: May release irritating and toxic gases due to thermal decomposition
Special Procedures: Evacuate area and fight fire upwind from a safe distance. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Do not discharge extinguishing water into the drain or water bodies.
Protection of Fire Fighters: Do not breathe a fumes. Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Avoid breathing fume. No open flame, sparks and smoking. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.
Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.
Methods for Cleaning-up: Collect spilled liquid with non-combustible absorbent material and transfer into containers for disposal. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Avoid solvent. Wear suitable protective equipment.

7: HANDLING & 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. Emptied containers retain vapor and product residue.
Specific Conditions: No special protective measures against fire required
Storage: Store in cool, well-ventilated area. Keep out of reach of children. Keep in original container and tightly closed when not in use. Keep product segregate from foods and animal feeds.

8:EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation and set up emergency exits and the risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid breathing dust, vapours or aerosols. Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. 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.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, and boots to avoid skin contact. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety goggles, chemical splash goggles or face shield should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9:PHYSICAL/CHEMICAL PROPERTIES

Appearance : Viscous liquid

Density[g/cc]: 1.22 to 1.27

Physical State: Liquid

pH : 7-10

Colour: Clear brown

Solubility in water: No data available

Flash point [°C]: >100

Odour : Mildly basic odour

10:STABILITY & REACTIVITY

Stability: Stable under normal circumstances

Conditions to avoid: Direct sunlight, sources of heat, open flame.

Hazardous thermal decomp. products: Toxic and irritant vapours will evolve on combustion and thermal decomposition.

Possibility of hazardous reactions: No hazardous reactions by normal handling and storage

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : > 1377

Rat inhalation LC50 [mg/l/4h] : >3.86

Skin irritation (rabbit): Non-Irritant

Dermal (rat) LD50 [mg/kg] : > 3448

Skin Sensitization (Guinea Pig): Not a skin sensitizer

Eye irritation (rabbit): Non-Irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow trout LC50 (96 hrs) mg/L: >100

Daphnia magna EC50 (48 hrs) mg/L: No data Green algae EC50 (7 d) mg/L: No data

13: DISPOSAL CONSIDERATION

Waste-disposal procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14: TRANSPORT INFORMATION

UN No. 3082 **Proper shipping name:** Environmentally Hazardous Substance, Liquid, N.O.S. 2,4 D Amine 58% SL

Land transport (ADR/RID): Class-9, Packing group - III

Sea transport (IMO) (IMDG): Class-9, Packing group - III , Marine pollutant - Yes

Air transport (IATA / ICAO): Class-9, Packing group - III

15: REGULATORY INFORMATION

Hazard symbol: GHS05, GHS07, GHS09

H- statement : H302, H313, H317, H318, H333, H335, H400, H410

16: OTHER INFORMATION

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