

SAFETY DATA SHEET



WEEDTRINE® D

SECTION 1. IDENTIFICATION

Product name : WEEDTRINE®-D

EPA REGISTRATION No. 67690-92

Relevant identified uses of substance or mixture: Algaecide / Herbicide

Manufacturer or supplier's details

Company : SePRO Corporation
11550 North meridian Street, Suite 600
Carmel, IN 46032

Telephone : 1-317-580-8282 / Toll Free 1-800-419-7779
Fax: 317-580-8290
Monday-Friday 8am-5pm EST
Email: www.sepro.com

Emergency telephone number : INFOTRAC 24-hour service 1-800-535-5053

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 3

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.
H311 + H331 Toxic in contact with skin or if inhaled.
H319 Causes serious eye irritation.



Precautionary statements

: **Prevention:**

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear eye protection/ face protection.
- P280 Wear protective gloves/ protective clothing.
- P234 Keep only in original container.

Response:

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
- P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P390 Absorb spillage to prevent material damage.

Storage:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P406 Store in a corrosion resistant container with a resistant inner liner.

Disposal:

- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
diquat dibromide	85-00-7	8 - 10

SECTION 4. FIRST AID MEASURES

If inhaled : IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.



- In case of skin contact : IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- In case of eye contact : IF IN EYES: 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.
- If swallowed : IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : To be effective, treatment for ingestion of the product must begin IMMEDIATELY. Treatment consists of binding the active ingredient, diquat, in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)
- Specific hazards during firefighting : Will not burn
Contact with reactive metals, e.g., aluminum may result in the generation of flammable hydrogen gas.
- Further information : Use water spray to cool unopened containers.
In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.
Prevent further leakage or spillage if safe to do so.



Use personal protective equipment as required.
Evacuate personnel to safe areas.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not take internally.
Avoid contact with skin, eyes and clothing.
If in eyes or on skin, rinse well with water.
Avoid breathing vapours, mist or gas.
- Conditions for safe storage : Store in a cool, dry and well ventilated place. Isolate from incompatible materials.
Do not freeze.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diquat dibromide	85-00-7	TWA (Inhalable fraction.)	0.5 mg/m3	ACGIH
		(Inhalable fraction.)		ACGIH
		(Inhalable fraction.)		ACGIH
		REL	0.5 mg/m3	NIOSH/GUIDE

Engineering measures : No exposure limits exist for the constituents of this product. Additional ventilation beyond that of general exhaust is not normally required.

Personal protective equipment

- Respiratory protection : Respiratory protection not normally needed.
- Hand protection
Remarks : Impervious gloves
- Eye protection : Use safety glasses with side shields.
- Skin and body protection : Impervious
Neoprene
butyl-rubber



Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : dark brown

Odour : no data available

Odour Threshold : no data available

pH : 4.0 - 5.0

Melting point/freezing point : no data available

Boiling point/boiling range : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : The product is not flammable.

Flammability (liquids) : no data available

Self-ignition : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : 1.035 - 1.045 (68 °F / 20 °C)

Bulk density : no data available

Water solubility : soluble

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available



Viscosity, dynamic : no data available
Viscosity, kinematic : no data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Stable under normal conditions.
Conditions to avoid : Heat
Incompatible materials : Aluminium
strong alkalis
Hazardous decomposition products : During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Skin, eyes, ingestion

Acute toxicity

Acute oral toxicity : LD50: Believed to be > 1,000 mg/kg
Acute inhalation toxicity : Remarks: no data available
Acute dermal toxicity : LD50: Believed to be > 500 mg/kg

Skin corrosion/irritation

Remarks: Not expected to cause irritation.

Serious eye damage/eye irritation

Remarks: Contact may cause moderate irritation consisting of transient redness, swelling, and mucous membrane discharge to the conjunctiva.

Respiratory or skin sensitization Remarks: Not believed to be sensitising to skin.

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Repeated dose toxicity

Remarks: There are no known or reported effects from chronic exposure.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity no data available
Persistence and degradability no data available
Bioaccumulative potential no data available
Mobility in soil no data available
Other adverse effects
Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : If this product becomes a waste, it will be a nonhazardous waste.
As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT : Not dangerous goods
UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
TDG
UN number : 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S. (diquat dibromide)



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Transport hazard class : 8
Packing group : III
Labels : 8
Environmental hazards : no

IATA

UN number : 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S. (diquat dibromide)
Transport hazard class : 8
Packing group : III
Labels : 8
Environmental hazards : no

IMDG

UN number : 1760
Proper shipping name : Corrosive liquid, n.o.s. (diquat dibromide)
Transport hazard class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Environmental hazards : Marine pollutant: no

RID

UN number : 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S. (diquat dibromide)
Transport hazard class : 8
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no
Special precautions for user :
Product not regulated for ground transport in the USA per exception permitted in 49 CFR 173.154(d).
Transport in bulk according to : Not applicable
Annex II of MARPOL 73/78 and the IBC Code

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These



requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

- EPA Registration number : 67690-92
- Signal word : CAUTION!
- Hazard statements : Harmful if swallowed.
Harmful if absorbed through skin.
Harmful if inhaled.
Causes moderate eye irritation.
This pesticide is toxic to aquatic invertebrates.

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
diquat dibromide	85-00-7	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Components	CAS-No.	Component RQ (lbs)
diquat dibromide	85-00-7	1000

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know



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Components	CAS-No.
diquat dibromide	85-00-7

Pennsylvania Right To Know

Components	CAS-No.
diquat dibromide	85-00-7

New Jersey Right To Know

Components	CAS-No.
diquat dibromide	85-00-7

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian lists

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

The components of this product are reported in the following inventories:

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : US. ACGIH Threshold Limit Values
NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards, as amended

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent,



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Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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