

Safety Data Sheet (SDS) 2,4 D SL/ 02

According to UN GHS 9th Ed
Revision Date: 2022/08/02

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First print date: 2017/10/24

Version: 1.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **2,4 D AMINE 480SL**

Additional information: Product code 2,4 D SL/02.

Relevant identification uses of the substance and uses advised against:

Identified uses: Herbicide.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

AECI Limited
14 Field Road, LILANTON

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Skin sensitization (Category 1)	H317
Serious eye damage (Category 1)	H318
Hazardous to the aquatic environment (Chronic 2)	H411

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: Causes severe eye burns and may cause allergic skin reactions.

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Label elements

Hazard pictograms:



Signal Word: Danger

Hazard Statements: H317 May cause an allergic skin reaction. H318 Causes severe eye damage. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: P264 Wash thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 call a POISON CENTER/doctor if you feel unwell. P501 Dispose of contents/container in accordance with local regulation.

Special labelling of certain mixtures: None

Other hazards: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients: Classification is based on the following ingredients which may be present.

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
	EC-No.		EC1272/2008
2, 4-D acid (present as the dimethylamine salt)	2008-39-1	40-50%	Skin sensitization (Category 1) H31. Serious eye damage (Category 1) H318. Aquatic chronic 2 H411.
	217-915-8		

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation occurs.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

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In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

Most important symptoms and effects, both acute and delayed:

Inhalation: None known.

Ingestion: May be harmful if swallowed.

Skin contact: May cause an allergic skin reaction.

Eye contact: Causes eye serious eye damage.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media:

SMALL FIRE: Use an extinguisher suitable for surrounding fire, water, foam, dry agent (carbon dioxide, dry chemical powder).

LARGE FIRE: Use an extinguisher suitable for surrounding fire, water, foam, dry agent (carbon dioxide, dry chemical powder).

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

May be combustible at high temperatures. Carbon oxides and hydrogen chloride gas. Container may rupture from gas generation in a fire situation. Dense smoke is produced when product burns.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling and Storage, for additional precautionary measures. Use appropriate safety equipment. For additional information refer to Section 8, Exposure Controls / Personal Protection.

For emergency responders: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling and Storage, for additional precautionary measures. Use appropriate safety equipment. For additional information refer to Section 8, Exposure Controls / Personal Protection.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for containment and cleaning up:

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For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into well labelled container for disposal according to local regulations.

For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid prolonged contact with concentrate. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Incompatible materials; combustible materials, reducing agents, acids, alkalis.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): No information.

Biological exposure indices (BEI): No information.

Additional exposure limits under the conditions of use: No information.

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

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Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective OEL's if applicable. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection: Use tight fitting chemical safety goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Respiratory protection: Usually, no respirator is necessary when using this product, however where a risk assessment shows respiratory protection is required an approved respirator must be used.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Liquid.

Colour: Yellow to brown.

Odour: Characteristic.

Odour threshold: No information available.

pH (at concentration): 8.8 (as is).

Melting point/range (°C): No information available.

Boiling point/range (°C): No information available.

Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas, liquid): No information available.

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

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Vapour density: No information available.

Relative density: 1.15 g/mL.

Water solubility: No information available.

Octanol/Water partition coefficient: Log P=-0.82

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic (cPa s): No information available.

Physical hazards:

Explosive properties: None.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

Hazardous polymerization will not occur.

Conditions to avoid:

Do not store for prolonged periods in direct sunlight, store below 30°C.

Incompatible materials:

Strong oxidising agents.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide and hydrogen chloride.

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SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Excretion: No Information available.

Information on toxicological effects:

Acute toxicity:

2,4-D-Amine 480 SL

Acute toxicity oral LD₅₀ for rats 2281 mg/kg.

Dermal LD₅₀ for rats >2000 mg/kg.

Inhalation LC₅₀ (4 h) for rats >3.5 mg/ℓ.

Chronic toxicity: No information available.

Skin corrosion/irritation:

2,4-D-dimethylammonium

For rabbit, non-irritant.

Serious eye damage/irritation:

2,4-D-dimethylammonium

Severe eye irritant for rabbit.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

2,4-D-dimethylammonium

Birds: Acute oral LD₅₀ for Bobwhite quail 500mg/kg. LC₅₀ (5 d) for Mallard ducks >5620 mg/ℓ.

Fish: LC₅₀ (96 h) for rainbow trout 100 mg/ℓ.

Algae: EC₅₀ for *Selenastrum capricornutum* 51 mg/ℓ. EC₅₀ for *Navicula pelliculosa* 4.67 mg/ℓ.

Other aquatic spp.: EC₅₀ for *Lemna gibba* 0.59 mg/ℓ. NOEC 0.27 mg/ℓ.

Bees: LD₅₀ for contact >100 µg/bee, for oral 94 µg/bee

Persistence and degradability:

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No information available.

Bioaccumulative potential:

No information available.

Mobility in soil:

No information available.

Results of PBT& vPvB assessment:

No information available.

Other adverse effects:

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

Information:

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2, 4-D acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2, 4-D acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2, 4-D acid)
Transport hazard class:	9	9	9
Transport hazard class pictograms:			
Packaging group:	III	III	III
Marine pollutant:	Yes	Yes	Yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

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Inland waterways: Not required.

Emergency response information: No information.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH)

Relevant information regarding restrictions: None.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No.

SECTION 16. OTHER INFORMATION

Indication of changes:

Change in section 1.

Relevant classification and H statements (number and full text):

Aquatic chronic 2: Hazardous to the aquatic environment (Chronic 2).

H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes severe eye damage. H412 Toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.