



2,4-D 720 amine (g/L) SL

Safety Data Sheet

according to the United Nations GHS (Rev. 7, 2017)

SDS reference: INDIA

Issue date: 1/13/2018 Revision date: 7/11/2022 Supersedes: 1/13/2018 Version: 2.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : 2,4-D 720 amine (g/L) SL

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Herbicide

1.4. Supplier's details

UPL Limited
CTS No. 610 B/2, Bandra Village,
Off Western Express Highway, Behind Teacher's Colony,
IN- Bandra (East) Mumbai, 400051 – Maharashtra
India
T +91-(022) 7152 8000

1.5. Emergency phone number

Emergency number : This SDS is listed with CHEMTREC. Country specific CHEMTREC emergency numbers stated below are operational 24X7.

Country	Organisation/Company	Emergency number	Comment
India	CHEMTREC	000 800 1007 141	Toll Free
China	CHEMTREC	400 120 4937	Local Number
Hong Kong	CHEMTREC	800 968 793	Toll Free
Japan	CHEMTREC	0800-300-5842	Toll Free
Malaysia	CHEMTREC	+60 3-9212 5794	Local Number
Malaysia	CHEMTREC	1-800-81-5308	Toll Free
Philippines	CHEMTREC	+63 2 8 395 3308	Local Number
Philippines	CHEMTREC	1800 1 116 1020	Toll Free
Taiwan	CHEMTREC	+886 2 7741 4207	Local Number
Taiwan	CHEMTREC	00801-14-8954	Toll Free
Thailand	CHEMTREC	001-800-13-203-9987	Toll Free

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids Not classified

Acute toxicity (oral), Category 4

H302

Acute toxicity (dermal), Category 5

H313

Acute toxicity (inhalation:dust,mist) Not classified

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Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

H335

Hazardous to the aquatic environment – Acute Hazard Not classified

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Harmful if swallowed, Harmful in contact with skin, May cause respiratory irritation.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN) :

Warning

Hazardous ingredients :

2,4-D ; 2,4-dichlorophenoxyacetic acid

Hazard statements (GHS UN) :

H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H335 - May cause respiratory irritation

Precautionary statements (GHS UN) :

P261 - Avoid breathing fume.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of water/....
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a doctor if you feel unwell.
P330 - Rinse mouth.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents and container to an approved waste disposal plant, hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
2,4-D (ISO); 2,4-dichlorophenoxyacetic acid	CAS-No.: 94-75-7	72
di-methylamine	CAS-No.: 124-40-3	30

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. Allow affected person to breathe fresh air. Allow the victim to rest.

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First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Special protective actions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: Protective gloves. Wear protective gloves.
Eye protection	: Safety glasses. Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Colour	: brown.
Odour	: Amine.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability (solid, gas)	: Not applicable, Non flammable.
Explosive limits	: Not available

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Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 110 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 6 – 7
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.2456
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Solubility	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle specific surface area	: Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: May be harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified.

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LD50 oral rat	1424.56 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l

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2,4-D (ISO); 2,4-dichlorophenoxyacetic acid (94-75-7)	
LD50 oral rat	639 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 1.79 mg/l/4h
Skin corrosion/irritation	: Not classified pH: 6 – 7
Serious eye damage/irritation	: Not classified pH: 6 – 7
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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LC50 - Fish	> 100 mg/l/96h
EC50 Daphnia	> 100 mg/l/48h
ErC50 algae	> 100 mg/l/72h

2,4-D (ISO); 2,4-dichlorophenoxyacetic acid (94-75-7)	
LC50 - Fish	100 mg/l (96h Pimephales promelas)
EC50 - Crustacea	25 – 262 mg/l (48h Daphnia magna)
ErC50 algae	24.2 mg/l (96h Pseudokirchneriella subcapitata)
NOEC chronic fish	63.4 mg/l (32d Pimephales promelas)
NOEC chronic crustacea	46.2 mg/l (21d Daphnia magna)

12.2. Persistence and degradability

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Persistence and degradability	Not established.

2,4-D (ISO); 2,4-dichlorophenoxyacetic acid (94-75-7)	
Not rapidly degradable	

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

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2,4-D (ISO); 2,4-dichlorophenoxyacetic acid (94-75-7)

BCF - Fish [1]	10 mg/l
Partition coefficient n-octanol/water (Log Kow)	-0.83 (pH=7; 25°C)

12.4. Mobility in soil

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Mobility in soil	No additional information available
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12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available
Other information	: Avoid release to the environment.



SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with IMDG / IATA

IMDG	IATA
14.1. UN number	
3082	3082
14.2. UN Proper Shipping Name	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D Amine Salt)	Environmentally hazardous substance, liquid, n.o.s. (2,4-D Amine Salt)
14.3. Transport hazard class(es)	
9	9
	
14.4. Packing group	
III	III
14.5. Environmental hazards	
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available	

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14.6. Special precautions for user

IMDG

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date	: 13/01/2018
Revision date	: 11/07/2022
Supersedes	: 13/01/2018

Other information : None.

Full text of H-statements:

H302	Harmful if swallowed
H313	May be harmful in contact with skin
H332	Harmful if inhaled
H335	May cause respiratory irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.