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MATERIAL SAFETY DATA SHEET (MSDS)

2,4 DICHLOROPHENOXY ACETIC ACID

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : 2,4 DICHLOROPHENOXY ACETIC ACID

Product code : D0084400500

Identification of the product : 2,4-D (ISO)
CAS No :94-75-7
EC No :202-361-1
Annex No :607-039-00-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM
Chaitanya Tower, 2nd Floor, Office # 206,
Siddharth Nagar, S.V. Road,
Goregaon (West), Mumbai - 400062,
Maharashtra, India.
Contact: +91 22 28725393 / 94 / 95
Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Xn; R22
Xi; R37-41
R43
R52-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP : Aquatic Chronic 3) H412

MATERIAL SAFETY DATA SHEET (MSDS)
2,4 DICHLOROPHENOXY ACETIC ACID
2. Hazards identification -DSD (continued)
2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: Xn : Harmful

R Phrase(s)

 : R22 : Harmful if swallowed.
 R37 : Irritating to respiratory system.
 R41 : Risk of serious damage to eyes.
 R43 : May cause sensitization by skin contact.
 R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

 : S2 : Keep out of the reach of children.
 S24/25 : Avoid contact with skin and eyes.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
 S46 : If swallowed seek medical advice immediately and show this container or label.
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: 2,4-D (ISO)

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

 : H318 : Causes serious eye damage.
 H302 : Harmful if swallowed.
 H317 : May cause an allergic skin reaction.
 H335 : May cause respiratory irritation.
 H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements
• General

 : P102: Keep out of reach of children.
 P103: Read label before use.
 P101: If medical advice is needed, have product container or label at hand.

• Prevention

 : P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

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2. Hazards identification -DSD (continued)

- P273: Avoid release to the environment.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P333+P313: If skin irritation or rash occurs : Get medical advice.
P363: Wash contaminated clothing before reuse.
- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : 2,4-D (ISO)

2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : 2,4-D (ISO)
CAS No :94-75-7
EC No :202-361-1
Annex No :607-039-00-8
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
2,4-D (ISO)	100 %	94-75-7	202-361-1	607-039-00-8	---	Xn; R22 Xi; R37-41 R43 R52-53 ----- Eye Dam 1 _ H318 Acute Tox. 4 (oral) _ H302 STOT SE 3 _ H335 Skin Sens. 1 _ H317 Aquatic Chronic 3 _ H412

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

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4. First aid measures (continued)

Inhalation	: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Get medical advice. Wash with plenty of soap and water. If skin irritation or rash occurs : Specific treatment (see on this label).
Eye contact	: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
Ingestion	: Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use	: Causes serious eye damage. Swallowing a small quantity of this material will result in serious health hazard. May cause an allergic skin reaction. May cause respiratory irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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5. Fire-fighting measures
5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.
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5.3. Advice for fire-fighters

Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.
Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid breathing dust, fume, gas, mist, vapours, spray. Contaminated work clothing should not be allowed out of the workplace.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

MATERIAL SAFETY DATA SHEET (MSDS)
2,4 DICHLOROPHENOXY ACETIC ACID
8. Exposure controls/personal protection
8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: Wear approved mask.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
VLA-ED [mg/m³]	: 10

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: White powder
Odour	: N/A
Odour threshold	: 3.13 ppm
pH value	: Not applicable.
Melting point [°C]	: 138
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: > 180 °C
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 180
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: < 1 hPa at 20 °C
Vapour pressure mm/Hg	: < 0.76 (20° C)
Vapour density	: N/A
Density [g/cm³]	: 1.56
Relative density, gas (air=1)	: 7.6
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble.

MATERIAL SAFETY DATA SHEET (MSDS)
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9. Physical and chemical properties (continued)

Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Acidic.
Viscosity at 40°C [mm ² /s]	: N/A

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.
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11. Toxicological information
11.1. Information on toxicological effects

Acute toxicity	
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MATERIAL SAFETY DATA SHEET (MSDS)
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11. Toxicological information (continued)

• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Harmful if swallowed.
Corrosion	: Causes serious eye damage.
Irritation	: May cause respiratory irritation.
Sensitization	: May cause an allergic skin reaction.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

12. Ecological information
12.1. Toxicity

Toxicity information : Harmful to aquatic life with long lasting effects.

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

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13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
H.I. nr : 90
ADR - Class : 9
Labelling - Transport : 9 : Miscellaneous dangerous substances and articles.



ADR - Classification code : M7
ADR - Group : III
ADR - Packing instructions : P002 R001 LP002
ADR - Limited Quantity : 5 KG
ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
IMO-IMDG - Class or division : 9 : Miscellaneous dangerous substances and articles.
IMO-IMDG - Packing group : III
IMO-IMDG - Packing instructions : P002 LP02
IMO-IMDG - Limited quantities : 5 kg
IMO-IMDG - Marine pollution : No
EMS-Nr : F-A S-F

MATERIAL SAFETY DATA SHEET (MSDS)
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14. Transport information (continued)
14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°	: 3077
IATA - Class or division	: 9 : Miscellaneous dangerous substances and articles.
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 956
- Passenger and Cargo - Maximum Quantity/Packing	: 400 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 956
- Cargo only - Maximum Quantity/Packing	: 400 kg
IATA - Limited Quantities	: 30 kg G
ERG-Nr	: 9L

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment	: It has not been carried out.
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16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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2,4 DICHLOROPHENOXY ACETIC ACID

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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