

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTITIFICATION

Trade Name: HY-D-Super Synonyms: 2,4-D, Herboxone

Formula: Aqueous solution of Dimethylamine salt of 2-(2-4-Dichlorophenoxy) acetic

acid.

Approved Use: Herbicide

Supplier: Barclay Chemicals Manufacturing Ltd.,

Damastown Way

Damastown Industrial Park

Mulhuddart Dublin 15 Ireland.

 Telephone No:
 00-353-1-8112900

 Fax No:
 00-353-1-822 4678

 Issued By:
 Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)

00-353-863857769 (5pm to 9am)

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	Aqueous solution of Dimethylamine salt of 2-(2-4-Dichlorophenoxy) acetic acid.

No.	CAS No.	EC No.	R Phrases	Concentration	Classification
1.	2008-39-1		R22,R41,R43R51/53	500 g/l	Xi, Xn
	•	-	•	•	

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

Human: HY-D Super is of moderate toxicity in normal handling and use.

Harmful if swallowed and in contact with skin and may cause sensitization by skin contact.

Risk of serious damage to eyes.

It may be irritating to skin, eyes or respiratory system.

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Environmental: HY-D Super is Harmful to fish and other aquatic life and Dangerous to higher aquatic plants.

4. FIRST-AID MEASURES

General:

Skin Contact:

If a person feels unwell after coming into contact with this product then seek medical attention immediately. Remove contaminated clothing and wash thoroughly with soap and water. If unconscious, check breathing and pulse (heartbeat). Give artificial ventilation and chest compression if necessary. If unconscious but breathing

and pulse are normal. Place in recovery position.

Inhalation: Remove patient from exposure. If there is breathing difficulty or

cough keep patient at rest, seated in position of maximum comfort. Remove contaminated clothing, wash immediately with soap and gently running water for 10 minutes, seek medical attention. Repeat

skin decontamination procedures until all signs of chemical have

gone.

Eye Contact: Irrigate with clean water for at least 15 minutes. Protect unharmed

eye.

Ingestion: If suspected do not induce vomiting, send immediately to hospital.

If conscious, drink plenty of water.

Medical Information: Note to Doctor Symptoms include hypersalivation, stomach

cramps, vomiting and diarrhoea. Other reported symptoms include convulsions, cerebral depression, mental confusion and speech

difficulty. Ventricular fibrillation has been reported.

5. FIRE-FIGHTING MEASURES

Measures: Fumes may be toxic - wear breathing apparatus.

Extinguish with waterspray, dry chemical, foam or Carbon dioxide

.

Product may be harmful to wildlife - DO NOT release chemically contaminated water into drains, soil or surface water - prevent run

off. Retain for safe disposal.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, or clothing. Do not inhale mists,

aerosols or dusts. Avoid ingestion. Wear suitable protective

clothing, boots, gloves, eye and face protection.

Environmental Precautions: Do NOT contaminate surface waters or ditches with chemical or

used containers. Minimise spray drift onto adjoining fields or water

bodies.

Spillage and decontamination: Contain and absorb spillage with sand, sawdust or similar material.

Dispose of via reputable contractor or local authority.

Do not allow spillage to contaminate water courses or drains.

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NB. Inform local Water PLC immediately if spillage enters drains, and report any contamination of surface water of ground waters to the National Rivers Authority or River Purification Board.

7. HANDLING AND STORAGE

Handling: Ensure there is sufficient ventilation of the area. Avoid contact with

skin/eyes. Do NOT inhale mists. Avoid ingestion.

When using do not eat, drink or smoke.

Wash hands and exposed skin before meals and after work.

Storage: Store and load away from foodstuffs and seeds. Keep tightly closed

in original container and store in a suitable pesticide store.

Packing: 5 litre plastic cans. 4* 51 per outer. Gross weight pack 23kg

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Occupational Exposure None assigned in current UK HSE publication EH40. Based on the

Standard: value for the technical 2,4D acid the calculated salt equivalent

long term limit is 12mg/m (8hr), or 24mg/m (15 min).

Engineering Controls

Ensure there is sufficient ventilation of the area.

Wear suitable protective clothing (coveralls), suitable protective gloves, rubber boots and face protection (faceshield) when

handling contaminated surfaces.

Respiratory Protection

Wear suitable respiratory protective equipment (faceshield) to

avoid exposure to concentrate or mist.

Hand Protection

Wear suitable protective gloves (EN 374:1994) when handling the

concentrate. Wash concentrate from skin immediately.

Eye Protection

Wear suitable eye/face protection

Hygiene measures

Handle in accordance with good industrial hygiene and safety

practice. Shower or bathe at the end of working.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Light brown liquid

Odour: Distinctive phenoxy odour

Melting PointN/ABoiling Point>100 °CpH7.5-9.5FlammabilityNo data

Explosive Properties
Stable product
1.0 g/ml at 20 °C

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Solubility in water
10. STABILITY AND REACTIVITY

Fully miscible in water

Materials to Avoid:

Hazardous Decomposition Products:

Strong bases, strong acids and oxidising agents Carbon monoxide, carbon dioxide, nitrogen oxides(NO_),Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Ingestion: Harmful if swallowed. LD50/oral/rat = 1297 mg/kg (males and

females)

Skin Contact Classified by Chemicals (Hazard Information and Packaging for

Supply)

Regulations as Harmful in Contact with Skin.

Dermal LD50 Dermal rat = >4000 mg/kg **Eye Contact** Risk of Serious Damage to eyes

Inhalation: Classified by Chemicals (Hazard Information and Packaging for

Supply)

Regulations as Harmful by Inhalation

Inhalation LC 50:4hour rat >5.01mg/l.CarcinogenicNot CarcinogenicMutagenicNot Mutagenic

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: HY-D Super is classified as Harmful to fish or other aquatic life

and Dangerous to higher aquatic plants.

Persistence and Degradability: Fairly mobile, but rapidly degraded in aerobic soils.

Rapidly degraded in aerobic soils (aerobic half life 2,4-D = 3-10

days).

Bioaccumulative potential: Potential for bioaccumulation is low based on log Pow. (log Pow

2,4-D = 0.91 at pH7).

 LC_{50} 96hr Rainbow Trout = >200mg 2,4-D DMA/1 & 72hr algae =

178mg 2,4-D DMA/l.

13. DISPOSAL CONSIDERATIONS

Product and Waste: (including

containers)

By incineration in accordance with the current UK legislation. For minor incidents or unwanted product follow the guidance of the disposal of pesticides and containers as given in part 5 of the MAFF/HSE Pesticide Code of Practice for the safe use of

Pesticides on Farms and Holdings.

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14. TRANSPORT INFORMATION

Special Transport Precautions: UN 3082, PG III **Road/Rail Classification:** ADR/RID Class: 9

Haz ID: 90

Proper shipping name: Environmentally hazardous substance,

solid, N.O.S. (contains 2,4-D 47%)

Sea Classification: IMDG Class: 9

Proper shipping name: Environmentally hazardous substance,

solid, N.O.S.

Air Classification: ICAO/IATA Class: 9

Proper shipping name: Environmentally hazardous substance,

solid, N.O.S.

15. REGULATORY INFORMATION

Xn N

Hazard Symbol : Xn - Harmful

N - Dangerous for the Environment

R- PHRASES:

R21,R22 - Harmful in contact with skin and if swallowed

R41 - Risk of Serious damage to eyes

R43 - May cause sensitisation by skin contact.

R51, 53- Toxic to aquatic organisms, may cause long term adverse effects in the aquatic

environment

S- PHRASES:

S24/25 - Avoid contact with skin or eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

immediate medical advice.

S36/37/3 - Wear suitable protective clothing, gloves and eye/face protection.

S46 - If swallowed, seek medical advice immediately and show the label where

possible.

S61 - Avoid release into the environment. Refer to special instructions/safety data sheet

16. OTHER INFORMATION

Revision 0 Date Prepared: 04/10/06

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Revision 1 Date Prepared: 11/12/06 Emergency phone number updated

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.

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