



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Thrust

Version 4 (UK)

Issue date 11/02/2009

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

Product information

Trade name : **Thrust**

Usage : herbicide

Company : Nufarm UK Limited
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2. HAZARDS IDENTIFICATION

Harmful if swallowed.
Risk of serious damage to eyes.
May cause sensitization by skin contact.
Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution of dimethylammonium salts
Contains 344 g/L 2,4-D and 120 g/L Dicamba

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
2,4-D DMA	2008-39-1	217-915-8	Xn, N	R22, R41, R43, R51/53	35.7 %
Dicamba DMA	2300-66-5	218-951-7	Xi	R36, R52/53	12.4 %
2,4-Dichlorophenol	120-83-2	204-429-6	T, N	R22, R24, R34, R51/53	0.1 %

4. FIRST AID MEASURES

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.



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Inhalation : Move to fresh air. If symptoms persist, call a physician.

Ingestion : Do NOT induce vomiting. Rinse mouth. If conscious, drink plenty of water. If symptoms persist, call a physician.

Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting : In the event of fire (HCl, Cl₂, CO) may be formed.

Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

Suitable extinguishing media : Water spray, Carbon dioxide (CO₂), Dry powder, Alcohol-resistant foam

Extinguishing media which shall not be used for safety reasons : High volume water jet

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment. (see Chapter 8)

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal.

Additional advice : Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Wear personal protective equipment.

Storage

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place.



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Advice on common storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

- Respiratory protection : No special protective equipment required.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Safety glasses, or, Goggles
- Skin and body protection : lightweight protective clothing
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
- Protective measures : Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical state : liquid at 20 °C ,
- Form : Soluble concentrate
- Colour : brown
- Odour : fish-like

Other data

- Start of crystallisation : ca.0 °C
Aqueous solution
- Boiling point/boiling range : ca.100 °C
at 1,013 hPa
Aqueous solution
- Flash point : > 100 °C
- Vapour pressure : Active ingredient as salt in aqueous solution. Vapour pressure is negligibly low.



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Density : 1.16 g/cm³
at 20 °C

Water solubility : completely miscible

pH : 7.5 - 9.5

10. STABILITY AND REACTIVITY

Conditions to avoid : No decomposition if stored and applied as directed.

Materials to avoid : Strong acids and strong bases

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: 1,127 mg/kg

Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg

Skin irritation : rabbit
Result: Mild skin irritation

Eye irritation : rabbit
Classification: Risk of serious damage to eyes.
Result: Severe eye irritation

Sensitisation : Result: May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Readily biodegradable, according to appropriate OECD test.

Stability in soil : DT50 : > 8 d
(2,4-D)
DT50 : < 25 d



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Contaminated packaging : Do not dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable regulations. according to EC directive 94/62/EC

According to European Directive 2000/532/EC as amended :

Waste Key Number : 02 01 08 (agrochemical waste containing dangerous substances)

14. TRANSPORT INFORMATION

UN-Number : **3082**

Description of the goods : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*(2,4-D)

IMDG

Class : 9
Packaging group : III
Marine pollutant : Y

ADR/RID :

Not a dangerous substance as defined in the above regulations.

IATA-DGR :

Not a dangerous substance as defined in the above regulations.

15. REGULATORY INFORMATION

Symbol(s) : Xn Harmful
N Dangerous for the environment

R-phrase(s) : R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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S-phrase(s) : 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.
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION

Print Date : 02/11/2009

(Alterations are indicated in the left hand margin by: ||)

Full text of any R phrases referred to under heading 3:

- R22 - Harmful if swallowed.
- R41 - Risk of serious damage to eyes.
- R43 - May cause sensitization by skin contact.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R36 - Irritating to eyes.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R22 - Harmful if swallowed.
- R24 - Toxic in contact with skin.
- R34 - Causes burns.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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