



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Output

Version 2 (UK)

Issue date 11/03/2009

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

Product information

Trade name : **Output**

Usage : adjuvant

Company : Nufarm UK Limited
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2. HAZARDS IDENTIFICATION

Irritating to eyes and skin.
Harmful to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : An oil based adjuvant
containing mineral oil and non-ionic surfactants

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
Isotridecyl alcohol, ethoxylated	9043-30-5	500-027-2	N, Xn	R22, R41, R51/53	40.0 %
Paraffin oils	8012-95-1	232-384-2			60.0 %

4. FIRST AID MEASURES

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

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.

Inhalation : Remove to fresh air, seek medical attention.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.



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5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).
- 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 : Avoid contact with skin and eyes. 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.
- Advice on common storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Personal protective equipment

- | | |
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| Respiratory protection | : No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment. |
| Hand protection | : hydrocarbons- resistant gloves |
| Eye protection | : Safety glasses |
| 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

- | | |
|--------|----------|
| Form | : liquid |
| Colour | : yellow |

Other data

- | | |
|--------------------|-------------------------------------|
| Flash point | : > 149 °C |
| Density | : 0.9 g/cm ³
at 25 °C |
| Water solubility | : emulsifiable |
| pH | : ca.7
at 100 g/l |
| Viscosity, dynamic | : 75 mPa.s
at 25 °C |

10. STABILITY AND REACTIVITY

- | | |
|---------------------|---|
| Conditions to avoid | : No dangerous reaction known under conditions of normal use. |
| Materials to avoid | : Strong oxidizing agents |



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Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

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

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

Skin irritation : Result: Severe skin irritation

Eye irritation : Result: Mild eye irritation

Sensitisation : Result: Did not cause sensitization on laboratory animals.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50
Dose: 37 mg/l
Testing period: 96 h

Toxicity to daphnia : EC50
Dose: 17 mg/l
Testing period: 48 h

13. DISPOSAL CONSIDERATIONS

Product : Dispose of product and packaging in accordance with The Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging : Do not re-use empty containers.

Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC



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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 :

ADR/RID :

Not a dangerous substance as defined in the above regulations.

IMDG :

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)	: Xi	Irritant
R-phrase(s)	: R38 R52	Irritating to skin. Harmful to aquatic organisms.
S-phrase(s)	: S 2 S13 S20/21 S28 S37/39 S35 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.
Other regulations	: The product is classified and labelled in accordance with EC directives or respective national laws.	



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16. OTHER INFORMATION

Print Date : 03/11/2009

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