



HATRA

Version 5 / GB
10200008429

1/11

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name HATRA
Product code (UVP) 06268129

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

Use Herbicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
United Kingdom

Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Responsible Department Email: ukinfo@bayercropscience.com

1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)
+44(0)1635-563000 (Overseas 24 hr)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Eye irritation: Category 2
H319 Causes serious eye irritation.

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi Irritant, R36/38
N Dangerous for the environment, R50/53

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

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- Mesosulfuron-methyl
- Iodosulfuron-methyl-sodium
- Mefenpyr-diethyl

**Signal word:** Warning**Hazard statements**

| | |
|--------|---|
| H319 | Causes serious eye irritation. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH208 | Contains fatty alcohol ethoxylate alkyl ether. May produce an allergic reaction. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

Precautionary statements

| | |
|-------------|---|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P501 | Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. |

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Chemical nature**

Oil dispersion (OD)

Mesosulfuron-methyl/Iodosulfuron-methyl-sodium/Mefenpyr-diethyl 10:2:30 g/l

Hazardous components

R-phrases according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

| Name | CAS-No. / EC-No. | Classification | | Conc. [%] |
|---|--------------------------|--|---|---------------------|
| | | EC Directive 67/548/EEC | Regulation (EC) No 1272/2008 | |
| Mesosulfuron-methyl | 208465-21-8 606-653-3 | N; R50/53 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | 1.04 |
| Iodosulfuron-methyl-sodium | 144550-36-7 | N; R50/53 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | 0.20 |
| Mefenpyr-diethyl | 135590-91-9 603-923-2 | Not classified | Not classified | 3.00 |
| Docusate sodium | 577-11-7 209-406-4 | Xi; R38, R41 | Eye Dam. 1, H318 Skin Irrit. 2, H315 | > 1.00 – < 5.00 |
| Solvent Naphtha (petroleum), light aromatic | 64742-95-6 265-199-0 | R10 Xi; R37 N; R51/53 Xn; R65 | Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | > 1.00 – < 10.00 |

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| | | | | |
|---|-------------------------|--|--|---------|
| Fatty alcohol ethoxylate alkyl ether | 1492044-51-5 | Xi; R38 Xi; R41 R43 N; R51/53 | Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | > 10.00 |
| Solvent Naphtha (petroleum), heavy aromatic | 64742-94-5 265-198-5 | Xn; R65 R66 N; R51/53 | Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | > 25.00 |

Further information

| | | |
|----------------------------|-------------|--------------------------------------|
| Mesosulfuron-methyl | 208465-21-8 | M-Factor: 100 (acute), 100 (chronic) |
| Iodosulfuron-methyl-sodium | 144550-36-7 | M-Factor: 1,000 (acute) |

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

| | |
|-----------------------|--|
| General advice | Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely. |
| Inhalation | Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately. |
| Skin contact | Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists. |
| Ingestion | Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. Rinse mouth. Call a physician or poison control center immediately. To prevent aspiration of swallowed product, lay in stable position on one side. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|-----------------|--|
| Symptoms | Headache, Nausea, Dizziness, Somnolence |
| | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |
| | Aspiration may cause pulmonary oedema and pneumonitis. |
| | Inhalation may provoke the following symptoms: |
| | Cough, Shortness of breath, Cyanosis, Fever |
| | Symptoms and hazards refer to the solvent. |

4.3 Indication of any immediate medical attention and special treatment needed

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|------------------|--|
| Risks | Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard. |
| Treatment | Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote. |

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

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

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or mixture In the event of fire the following may be released: Carbon monoxide (CO), Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride (HCl), Hydrogen iodide (HI)

5.3 Advice for firefighters

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Precautions Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2 Environmental precautions Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

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| | |
|---|---|
| Advice on safe handling | No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation. |
| Advice on protection against fire and explosion | Keep away from heat and sources of ignition. |
| Hygiene measures | Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt). |
| 7.2 Conditions for safe storage, including any incompatibilities | |
| Requirements for storage areas and containers | Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Store bulk material and packed materials in a closed warehouse or under cover protected against direct sunlight and frost. Protect from freezing. |
| Advice on common storage | Keep away from food, drink and animal feedingstuffs. |
| Suitable materials | Coex EVOH (1000L IBC) |
| 7.3 Specific end uses | Refer to the label and/or leaflet. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

| Components | CAS-No. | Control parameters | Update | Basis |
|----------------------------|-------------|------------------------------|--------|----------|
| Iodosulfuron-methyl-sodium | 144550-36-7 | 1 mg/m ³ (TWA) | | OES BCS* |

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Additional advice

Observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72).

8.2 Exposure controls

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

| | |
|-------------------------------|--|
| Respiratory protection | Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance. |
| Hand protection | Wear CE Marked (or equivalent) nitrile rubber gloves (minimum |

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thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

| | |
|---|--|
| Form | Liquid |
| Colour | beige |
| Odour | aromatic |
| pH | 7.0 - 8.5 at 10 % (23 °C) (deionized water) |
| Flash point | ca.93 °C |
| Autoignition temperature | 405 °C at 1,021 hPa |
| Density | ca. 1.00 g/cm ³ at 20 °C |
| Water solubility | dispersible |
| Partition coefficient: n-octanol/water | Mesosulfuron-methyl: log Pow: -0.48 Iodosulfuron-methyl-sodium: log Pow: -0.7 Mefenpyr-diethyl: log Pow: 3.83 at 21 °C |
| Viscosity, dynamic | 30 - 150 mPa.s at 20 °C Velocity gradient 20 /s 25 - 100 mPa.s at 20 °C Velocity gradient 100 /s |
| Surface tension | 29.9 mN/m at 40 °C Determined in the undiluted form. |
| Oxidizing properties | No oxidizing properties |
| Explosivity | Not explosive |
| 9.2 Other information | Further safety related physical-chemical data are not known. |

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity****Thermal decomposition** Stable under normal conditions.**10.2 Chemical stability** Stable under recommended storage conditions.

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|--|--|
| 10.3 Possibility of hazardous reactions | No hazardous reactions when stored and handled according to prescribed instructions. |
| 10.4 Conditions to avoid | Extremes of temperature and direct sunlight. |
| 10.5 Incompatible materials | Store only in the original container. |
| 10.6 Hazardous decomposition products | No decomposition products expected under normal conditions of use. |

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute oral toxicity** LD50 (rat) \geq 5,000 mg/kg**Acute inhalation toxicity**

During intended and foreseen applications, no respirable aerosol is formed.

Acute dermal toxicity LD50 (rat) > 4,000 mg/kg**Skin irritation**

Moderate skin irritation. (rabbit)

Eye irritation

Irritating to eyes. (rabbit)

SensitisationNon-sensitizing. (guinea pig)
OECD Test Guideline 406, Buehler test**Assessment repeated dose toxicity**

Mesosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies.
Iodosulfuron-methyl-sodium did not cause specific target organ toxicity in experimental animal studies.
Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity

Mesosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Iodosulfuron-methyl-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity

Mesosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice.
Iodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice.
Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Mesosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats.
Iodosulfuron-methyl-sodium did not cause reproductive toxicity in a two-generation study in rats.
Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Mesosulfuron-methyl did not cause developmental toxicity in rats and rabbits.
Iodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits.
Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

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Exposure time: 96 h**Toxicity to aquatic invertebrates** EC50 (Water flea (*Daphnia magna*)) 7.6 mg/l
Exposure time: 48 h**Toxicity to aquatic plants** EC50 (*Pseudokirchneriella subcapitata*) 6.71 mg/l
Exposure time: 72 h
EC50 (*Lemna gibba* (duckweed)) 88.4 µg/l
Exposure time: 7 d**12.2 Persistence and degradability****Biodegradability** Mesosulfuron-methyl:
not rapidly biodegradable
Iodosulfuron-methyl-sodium:
not rapidly biodegradable
Mefenpyr-diethyl:
not rapidly biodegradable**Koc** Mesosulfuron-methyl: Koc: 92
Iodosulfuron-methyl-sodium: Koc: 45
Mefenpyr-diethyl: Koc: 625**12.3 Bioaccumulative potential****Bioaccumulation** Mesosulfuron-methyl:
Does not bioaccumulate.
Iodosulfuron-methyl-sodium:
Does not bioaccumulate.
Mefenpyr-diethyl: Bioconcentration factor (BCF) 232
Does not bioaccumulate.**12.4 Mobility in soil****Mobility in soil** Mesosulfuron-methyl: Moderately mobile in soils
Iodosulfuron-methyl-sodium: Mobile in soils
Mefenpyr-diethyl: Slightly mobile in soils**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** Mesosulfuron-methyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Iodosulfuron-methyl-sodium: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Mefenpyr-diethyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).**12.6 Other adverse effects****Additional ecological information** No other effects to be mentioned.

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| | |
|---|--|
| Product | In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK). |
| Contaminated packaging | Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times. Add washings to sprayer at time of filling. Dispose of empty and cleaned packaging safely. Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose. Return large containers to supplier. Follow advice on product label and/or leaflet. |
| Waste key for the unused product | 020108 agrochemical waste containing dangerous substances |

SECTION 14: TRANSPORT INFORMATION**ADR/RID/ADN**

| | |
|---------------------------------|--|
| 14.1 UN number | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Environm. Hazardous Mark | YES |
| Hazard no. | 90 |
| Tunnel Code | E |

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

| | |
|---------------------------------|--|
| 14.1 UN number | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Marine pollutant | YES |

IATA

| | |
|----------------|-------------|
| 14.1 UN number | 3082 |
|----------------|-------------|

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| | |
|---------------------------------|---|
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Environm. Hazardous Mark | YES |

UK 'Carriage' Regulations

| | |
|---------------------------------|--|
| 14.1 UN number | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Environm. Hazardous Mark | YES |
| Emergency action code | 3Z |

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK and Northern Ireland Regulatory References**

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

Waste Treatment

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)



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Landfill Directive
Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)
Water Resources Act 1991
Anti-Pollution Works Regulations 1999

Further information

WHO-classification: III (Slightly hazardous)

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of R-phrases mentioned in Section 3

| | |
|--------|--|
| R10 | Flammable. |
| R37 | Irritating to respiratory system. |
| R38 | Irritating to skin. |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R66 | Repeated exposure may cause skin dryness or cracking. |

Text of the hazard statements mentioned in Section 3

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.