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

### 1.1 Product identifier

| | |
|---|---|
| **Trade name** | SILVRON XPRO |
| **Product code (UVP)** | 86790130 |
| **UFI** | R833-J0H1-Y00S-CK9Q (for Northern Ireland only) |

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

| | |
|---|---|
| **Use** | Fungicide |

### 1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| **Supplier** | Bayer CropScience Limited<br>PO Box 1582<br>CB1 0FE Cambridge<br>United Kingdom |
| **Telephone** | +44(0)1223 226500 |
| **FOR NORTHERN IRELAND:** | Bayer CropScience Ltd<br>Bayer Ltd<br>1st Floor, The Grange Offices<br>The Grange, Brewery Road<br>Stillorgan<br>Co. Dublin<br>A94 H2K7<br>Ireland |
| **Telephone** | +353 1 216 3300 |
| **Responsible Department** | Email: gb-bcs-crop-regulatory-affairs@bayer.com |

### 1.4 Emergency telephone no.

| | |
|---|---|
| **Emergency telephone no.** | 0330 678 3382 (24 hr)<br><br>For Medical Professionals:<br>You can also contact the relevant NPIS.<br><br>For Members to the Public:<br>You can contact NHS111 (for GB) or your local GP (for Northern Ireland)<br><br>National Poisons Information Centre UK: 0344 892 0111<br>National Poisons Information Centre Dublin: +353 1 809 2166 |

## 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. (CLP Regulation including Northern Ireland)**

Skin irritation: Category 2
H315 Causes skin irritation.

Skin sensitisation: Category 1B
H317 May cause an allergic skin reaction.

Eye irritation: Category 2
H319 Causes serious eye irritation.

Aspiration hazard: Category 1
H304 May be fatal if swallowed and enters airways.

Specific target organ toxicity - single exposure: Category 3
H335 May cause respiratory irritation.

Long-term (chronic) aquatic hazard: Category 2
H411 Toxic to aquatic life with long lasting effects.

**Classification according to UK/GB regulations**

Skin irritation: Category 2
H315 Causes skin irritation.

Skin sensitisation: Category 1B
H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure: Category 3
H335 May cause respiratory irritation.

Aspiration hazard: Category 1
H304 May be fatal if swallowed and enters airways.

Eye irritation: Category 2
H319 Causes serious eye irritation.

Long-term (chronic) aquatic hazard: Category 2
H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Bixafen
- Fluopyram
- Hydrocarbons, C10-C13, aromatics, <1% naphthalene
- N,N-Dimethyl decanamide

**Signal word**: Danger

**Hazard statements**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H304 | May be fatal if swallowed and enters airways. |
| H335 | May cause respiratory irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |
| 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. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician. |
| P331 | Do NOT induce vomiting. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container in accordance with local regulation. |

**Labelling according to UK/GB regulations**

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Bixafen
- Fluopyram
- Solvent Naphtha (petroleum), heavy aromatic, <1% naphthalene
- N,N-Dimethyl decanamide

**Signal word**: Danger

**Hazard statements**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eye irritation. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

**Precautionary statements**

| | |
|---|---|
| P261 | Avoid breathing spray. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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**

Product does not contain substances that are persistent, mobile, and toxic (PMT) at levels of 0.1 % or higher.
Product does not contain substances that are very persistent and very mobile (vPvM) 0.1 % or higher.

Bixafen: 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). Fluopyram: 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). N,N-Dimethyldecanamide: 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). 2-Ethylhexanol propylene ethyleneglycol ether: Not applicable

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixtures**

**Chemical nature**

Emulsifiable concentrate (EC)
Bixafen + Fluopyram EC 200 (100+100 g/L)

**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

| Name | CAS-No. / EC-No. / REACH Reg. No. | Classification REGULATION (EC) No 1272/2008 | Conc. [%] |
|---|---|---|---|
| Bixafen | 581809-46-3 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | 9.8 |
| Fluopyram | 658066-35-4<br>619-797-7 | Aquatic Chronic 2, H411 | 9.8 |
| N,N-Dimethyl decanamide | 14433-76-2<br>01-2119485027-36-XXXX | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 | >= 25 |
| Hydrocarbons, C10-C13, aromatics, <1% | 922-153-0 | Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 | >= 10 – < 25 |

| | | | |
|---|---|---|---|
| naphthalene | 01-2119451097-39-xxxx | | |
| 2-Ethylhexanol propylene ethyleneglycol ether | 64366-70-7 | Acute Tox. 4, H332<br>Aquatic Chronic 3, H412 | >= 1 – < 25 |
| Alkylarylpolyglycol ether | 104376-75-2<br>600-560-1 | Aquatic Chronic 3, H412 | >= 1 – < 25 |

**Further information**

| | | |
|---|---|---|
| Bixafen | 581809-46-3 | M-Factor: 10 (acute) |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Particle characteristics**

This substance/ mixture does not contain nanoforms.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**General advice**
Remove contaminated clothing immediately and dispose of safely. Move out of dangerous area. Place and transport victim in stable position (lying sideways).

**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. Call a physician or poison control center immediately. Rinse mouth.

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

**Symptoms**
If large amounts are ingested, the following symptoms may occur:, Headache, Nausea, Dizziness, Somnolence

Aspiration may cause pulmonary oedema and pneumonitis.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

**Risks**
Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

| | |
|---|---|
| **Treatment** | Treat symptomatically. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. In case of aspiration intubation and bronchial lavage should be considered. Monitor: kidney, liver and pancreas function. There is no specific antidote. Contraindication: derivatives of adrenaline. |

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

| | |
|---|---|
| **Suitable** | Water spray, Carbon dioxide (CO2), Foam, Sand |

| | |
|---|---|
| **5.2 Special hazards arising from the substance or mixture** | In the event of fire the following may be released:, Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx) |

### 5.3 Advice for firefighters

| | |
|---|---|
| **Special protective equipment for firefighters** | In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. |
| **Further information** | Contain the spread of the fire-fighting media. 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. |

### 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.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13. |

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

| | |
|---|---|
| **Advice on safe handling** | Use only in area provided with appropriate exhaust ventilation. |
| **Advice on protection** | Keep away from heat and sources of ignition. Take measures to prevent |

| | |
|---|---|
| **against fire and explosion** | the build up of electrostatic charge. |
| **Hygiene measures** | Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt). Wash hands before breaks and immediately after handling the product. |

**7.2 Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| **Requirements for storage areas and containers** | Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. |
| **Advice on common storage** | Keep away from food, drink and animal feedingstuffs. |
| **Suitable materials** | Coex HDPE/EVOH/HDPE |
| **7.3 Specific end use(s)** | Refer to the label and/or leaflet. |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

| Components | CAS-No. | Control parameters | Update | Basis |
|---|---|---|---|---|
| Bixafen | 581809-46-3 | 0.6 mg/m3 (TWA) | | OES BCS* |
| Fluopyram | 658066-35-4 | 0.34 mg/m3 (TWA) | | OES BCS* |

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

**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** | Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. 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** | Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.<br>Wash gloves when contaminated. 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.

| | |
|---|---|
| Material | Nitrile rubber |
| Rate of permeability | > 480 min |
| Glove thickness | > 0.4 mm |
| Protective index | Class 6 |
| Directive | Protective gloves complying with EN 374. |

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

**Skin and body protection** Wear standard coveralls and Category 3 Type 4 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Form** | Liquid, clear to slightly turbid |
| **Colour** | yellow to brown |
| **Odour** | characteristic |
| **Odour Threshold** | No data available |
| **Melting point/ range** | No data available |
| **Boiling Point** | No data available |
| **Flammability** | No data available |
| **Upper explosion limit** | No data available |
| **Lower explosion limit** | No data available |
| **Flash point** | 134 °C (1,014 hPa),closed cup |
| **Auto-ignition temperature** | 350 °C |
| **Self-accelarating decomposition temperature (SADT)** | No data available |
| **pH** | 6.0 - 8.5 (1 %) (23 °C) (deionized water) |
| **Viscosity, dynamic** | No data available |
| **Viscosity, kinematic** | 16.91 mm²/s (40 °C) Shear rate of 20/sec |
| **Water solubility** | No data available |
| **Partition coefficient: n-octanol/water** | Bixafen: log Pow: 3.3 (40 °C) |

| | |
|---|---|
| | Fluopyram: log Pow: 3.3 |
| | N,N-Dimethyldecanamide: log Pow: 2.46 |
| | 2-Ethylhexanol propylene ethyleneglycol ether: No data available |
| **Surface tension** | 25 mN/m (25 °C) |
| **Vapour pressure** | No data available |
| **Density** | ca. 1.02 g/cm³ (20 °C) |
| **Relative density** | No data available |
| **Relative vapour density** | No data available |
| **Assessment nano particles** | This substance/ mixture does not contain nanoforms. |
| **Particle size** | No data available |

**9.2 Other information**

| | |
|---|---|
| **Explosivity** | Not explosive |
| **Oxidizing properties** | No oxidizing properties |
| **Evaporation rate** | No data available |
| **Other physico-chemical properties** | Further safety related physical-chemical data are not known. |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **10.1 Reactivity** | Stable under normal conditions. |
| **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 hazard classes as defined in regulation (EC) No 1272/2008**

| | |
|---|---|
| **Acute oral toxicity** | ATE (Mix) > 2,000 mg/kg<br>Calculation method |
| **Acute inhalation toxicity** | ATE (Mix) > 5 mg/l<br>Calculation method |

| | |
|---|---|
| | Irritating to respiratory system.<br>The data refer to N,N-Dimethyldecanamid. |
| **Acute dermal toxicity** | ATE (Mix) > 2,000 mg/kg<br>Calculation method |
| **Skin corrosion/irritation** | Irritating to skin.<br>The information is derived from the properties of the individual components. |
| **Serious eye damage/eye irritation** | Irritating to eyes.<br>The information is derived from the properties of the individual components. |
| **Respiratory or skin sensitisation** | Skin: Sensitising (Mouse)<br>OECD Test Guideline 429, local lymph node assay (LLNA) |

**Assessment STOT Specific target organ toxicity – single exposure**

Bixafen: Based on available data, the classification criteria are not met.
Fluopyram: Based on available data, the classification criteria are not met.
N,N-Dimethyldecan-1-amide: May cause respiratory irritation.
2-Ethylhexanol propylene ethyleneglycol ether: Based on available data, the classification criteria are not met.

**Assessment STOT Specific target organ toxicity – repeated exposure**

Bixafen did not cause human relevant specific target organ toxicity in experimental animal studies.
Fluopyram did not cause specific target organ toxicity in experimental animal studies.
N,N-Dimethyldecanamide did not cause specific target organ toxicity in experimental animal studies.
2-Ethylhexanol propylene ethyleneglycol ether: Based on available data, the classification criteria are not met.

**Assessment mutagenicity**

Bixafen was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Fluopyram was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
N,N-Dimethyldecanamide was not genotoxic in a battery of in vitro tests.
2-Ethylhexanol propylene ethyleneglycol ether is not considered mutagenic.

**Assessment carcinogenicity**

Bixafen was not carcinogenic in lifetime feeding studies in rats and mice.
Fluopyram caused at high dose levels an increased incidence of tumours in rats in the following organ(s): Liver.
Fluopyram caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Thyroid.
The tumours seen with Fluopyram were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers these tumours is not relevant to humans.
N,N-Dimethyldecanamide is not considered carcinogenic.
2-Ethylhexanol propylene ethyleneglycol ether: Based on available data, the classification criteria are not met.

**Assessment toxicity to reproduction**

Bixafen did not cause reproductive toxicity in a two-generation study in rats.
Fluopyram caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fluopyram is related to parental toxicity.
N,N-Dimethyldecanamide is not considered a reproductive toxicant at non-maternally toxic dose levels.
2-Ethylhexanol propylene ethyleneglycol ether: Based on available data, the classification criteria are

not met.

**Assessment developmental toxicity**

Bixafen did not cause developmental toxicity in rats and rabbits.
Fluopyram caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Fluopyram are related to maternal toxicity.
N,N-Dimethyldecanamide did not cause developmental toxicity in rats and rabbits.
2-Ethylhexanol propylene ethyleneglycol ether: This information is not available.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Further information**

No data is available on the product itself.
The information is derived from the properties of the individual components.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

| | |
|---|---|
| **Assessment** | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

| | |
|---|---|
| **Toxicity to fish** | LC50 (Oncorhynchus mykiss (rainbow trout)) 1.42 mg/l<br>Exposure time: 96 h |
| **Toxicity to aquatic invertebrates** | EC50 (Daphnia magna (Water flea)) 2.27 mg/l<br>Exposure time: 48 h |
| **Chronic toxicity to aquatic invertebrates** | NOEC (Daphnia magna (Water flea)): 1.88 mg/l<br>Exposure time: 48 h |
| **Toxicity to aquatic plants** | EC50 (Raphidocelis subcapitata (freshwater green alga)) 1.22 mg/l<br>Growth rate; Exposure time: 72 h |

**12.2 Persistence and degradability**

| | |
|---|---|
| **Biodegradability** | Bixafen:<br>Not rapidly biodegradable<br>Fluopyram:<br>Not rapidly biodegradable<br>N,N-Dimethyldecanamide:<br>rapidly biodegradable<br>2-Ethylhexanol propylene ethyleneglycol ether:<br>Not readily biodegradable. |
| **Koc** | Bixafen: Koc: 3869 |

Fluopyram: Koc: 279
2-Ethylhexanol propylene ethyleneglycol ether:No data available

**12.3 Bioaccumulative potential**

| | |
|---|---|
| **Bioaccumulation** | Bixafen: Bioconcentration factor (BCF) 695<br>Does not bioaccumulate.<br>Fluopyram: Bioconcentration factor (BCF) 18<br>Does not bioaccumulate.<br>N,N-Dimethyldecanamide:<br>Does not bioaccumulate.<br>2-Ethylhexanol propylene ethyleneglycol ether:<br>No data available |

**12.4 Mobility in soil**

| | |
|---|---|
| **Mobility in soil** | Bixafen: criterion of mobility not fulfilled<br>Fluopyram: mobile in soil<br>N,N-Dimethyldecanamide: Slightly mobile in soils<br>2-Ethylhexanol propylene ethyleneglycol ether: No data available |

**12.5 Results of PBT and vPvB assessment**

| | |
|---|---|
| **PBT and vPvB assessment** | Bixafen: 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).<br>Fluopyram: 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).<br>N,N-Dimethyldecanamide: 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).<br>2-Ethylhexanol propylene ethyleneglycol ether: Not applicable |

**12.6 Other adverse effects**

| | |
|---|---|
| **Additional ecological information** | Information given is based on data on the components and the toxicology of similar products.<br>PMT and vPvM assessment:<br>Product does not contain substances that are persistent, mobile, and toxic (PMT) at levels of 0.1 % or higher.<br>Product does not contain substances that are very persistent and very mobile (vPvM) 0.1 % or higher. |

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

| | |
|---|---|
| **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** | Not completely emptied packagings should be disposed of as hazardous waste. |

## SECTION 14: TRANSPORT INFORMATION

**ADR/RID/ADN**

| | |
|---|---|
| 14.1 UN number | **3082** |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIXAFEN SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Environm. Hazardous Mark | YES |
| Hazard no. | 90 |
| Tunnel Code | - |

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. (BIXAFEN SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Marine pollutant | YES |

**IATA**

| | |
|---|---|
| 14.1 UN number | **3082** |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIXAFEN SOLUTION ) |
| 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. (BIXAFEN SOLUTION) |
| 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 IMO instruments**
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)
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)

## SECTION 16: OTHER INFORMATION

**Text of the hazard statements mentioned in Section 3**

| | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Abbreviations and acronyms**

| | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute toxicity estimate |
| CAS-Nr. | Chemical Abstracts Service number |
| Conc. | Concentration |
| EC-No. | European community number |
| ECx | Effective concentration to x % |
| EH40 WEL | Worker Exposure Limit |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| EN | European Standard |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx | Inhibition concentration to x % |
| IMDG | International Maritime Dangerous Goods |
| LCx | Lethal concentration to x % |
| LDx | Lethal dose to x % |
| LOEC/LOEL | Lowest observed effect concentration/level |
| MARPOL | MARPOL: International Convention for the prevention of marine pollution from ships |
| N.O.S. | Not otherwise specified |
| NOEC/NOEL | No observed effect concentration/level |
| OECD | Organization for Economic Co-operation and Development |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SI | Statutory Instrument |
| TWA | Time weighted average |
| UN | United Nations |
| WHO | World health organisation |

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.

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients.

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