



# Safety Data Sheet

## MINSTREL

Preparation Date 03-Apr-2012

Revision date 16-Jan-2015

Revision Number: 3

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Identification of the product

Product code HBL02  
Product Description: MINSTREL  
Synonyms -  
Pure substance/preparation Preparation

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Herbicide

#### 1.3 Details of the Supplier of the Safety Data Sheet

Supplier UPL Europe Ltd  
The Centre  
Birchwood Park  
Warrington  
WA3 6YNCheshire  
UK  
Tel. : +44 (0) 1925 819999  
Fax : +44 (0) 1925 856075  
E-mail address info.uk@uniphos.com

#### 1.4 Emergency Telephone Number

Emergency telephone number (CARECHEM 24): +44 (0) 1235 239670

United Kingdom NHS no. 111

## 2. Hazards Identification

### 2.1 Classification of the mixture

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

<b>Symbol(s)</b>	Xn - Harmful N - Dangerous for the environment
<b>R-code(s)</b>	R10 - Xn; R65 - Xi; R36/37/38 - R67 - N; R50-53

For the full text of the R phrases mentioned in this Section, see Section 16

#### Classification according to regulation (EC) No 1272/2008 (CLP)

FLAMMABLE LIQUIDS	Category 3 - H226
Aspiration toxicity	Category 1 - H304
Serious Eye Damage/Irritation	Category 2 - H319
STOT - Single Exposure	Category 3 H335 / H336
Acute aquatic toxicity	Category 1 - H400
Chronic aquatic toxicity	Category 1 - H410

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

### 2.2 Label elements

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



**Symbol(s)**  
Xn - Harmful  
N - Dangerous for the environment

**R -phrase(s)**  
R10 - Flammable  
R65 - Harmful: may cause lung damage if swallowed  
R67 - Vapours may cause drowsiness and dizziness  
R36/37/38 - Irritating to eyes, respiratory system and skin  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**S -phrase(s)**  
S24 - Avoid contact with skin  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S37 - Wear suitable gloves  
S57 - Use appropriate container to avoid environmental contamination  
S60 - This material and its container must be disposed of as hazardous waste  
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets  
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

#### Labelling according Regulation (EC) No 1272/2008 (CLP)



signal word

**DANGER**

**hazard statements**

H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/ eye protection/ face protection  
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P391 - Collect spillage  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P501 - Dispose of contents/ container in accordance with national regulation

**EU Specific Hazard Statements**

EUH006 - Explosive with or without contact with air  
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**2.3 Other Hazards**

No information available

### 3. Composition/information on Ingredients

#### 3.2. MIXTURES

Chemical name	EC No	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
Fluroxypyr 1-methylheptyl ester	279-752-9	81406-37-3	30 - 40	N; R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
Hydrocarbons, C9, aromatics	918-668-5	64742-95-6	60 - 70	R10 Xi;R37 Xn; R65, R66, R67 N;R51/53	Flammable liquids 3 (H226) ) STOT SE 3 (H335) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)	01-2119455851-35
Mixture of Alkyl Aryl Sulfonic Acide and it Calcium Sodium and Potassium salt	-	-	5 - 10	R10 Xn;R41 Xi;R37/38 R52/53 R67	STOT SE 3 (H335) STOT SE 3 (H336) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	no data available

For the full text of the R phrases mentioned in this Section, see Section 16

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

## 4. First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists, consult a specialist
<b>Skin contact</b>	Wash off immediately with plenty of water If symptoms persist, call a physician
<b>Ingestion</b>	Rinse mouth with water Do NOT induce vomiting Call a physician or poison control center immediately
<b>Inhalation</b>	Move to fresh air Call a physician or poison control center immediately Effects of overexposure: Causes headache, drowsiness or other effects to the central nervous system May cause irritation of respiratory tract

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available.

### 4.3 Indication of immediate medical attention and special treatment needed

ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, fog or alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Foam Dry powder
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

<b>Special Hazard</b>	Burning produces obnoxious and toxic fumes
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### 5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas  
Wear protective gloves/clothing and eye/face protection.  
Avoid contact with skin, eyes and inhalation of vapors

### 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so  
Prevent product from entering drains  
Local authorities should be advised if significant spillages cannot be contained

### 6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container  
Remove all sources of ignition

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

#### **Handling**

Provide adequate ventilation  
Wear personal protective equipment  
Avoid contact with skin, eyes and clothing  
Ensure that eyewash stations and safety showers are close to the workstation location

#### **Hygiene Measures**

Use only outdoors or in a well-ventilated area

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

Keep only in the original container/package in a cool well-ventilated place  
Keep in a dry place  
Avoid extreme high or low temperatures.  
Keep away from heat and sources of ignition

### 7.3 Specific end uses

No information available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Exposure Limits** Apply technical measures to comply with the occupational exposure limits  
[http://limitvalue.ifa.dguv.de/Webform\\_gw.aspx](http://limitvalue.ifa.dguv.de/Webform_gw.aspx)

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2 Exposure Controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas

#### Personal Protective Equipment

<b>Eye protection</b> <b>Skin protection</b> <b>Hand protection</b> <b>Respiratory protection</b>	Safety glasses with side-shields. Long sleeved clothing. Protective gloves. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
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**Environmental exposure controls** No information available.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>appearance</b> <b>Physical state</b>  <b>Odor</b>	dark yellow liquid Emulsifiable concentrate characteristic	
<u>Property</u> <b>pH</b> <b>Melting point/freezing point</b> <b>Boiling Point/Range</b> <b>flash point</b> <b>flammability (solid, gas)</b> <b>Surface tension</b> <b>Relative Density</b> <b>Solubility in Other Solvents</b> <b>Partition coefficient: n-octanol/water</b> <b>Autoignition temperature</b> <b>decomposition temperature</b> <b>viscosity</b> <b>Oxidizing properties</b> <b>Explosive properties</b>	<u>VALUES</u> 7.5 No information available No information available 56.5 °C No data available 29.76 mN/m 0.98 kg/l No information available No information available No information available No information available 2.02 mPas Non oxidizing According to the chemical structure no explosion reaction is expected.	<u>Remarks/ Method</u> (1% solution)   (25°C)  Dynamic viscosity

### 9.2 OTHER INFORMATION

**VOC Content** No information available

## 10. Stability and Reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight  
Keep away from heat, sparks and open flame. - No smoking

### 10.5 Incompatible Materials

Acids  
Strong bases  
Oxidizing agents.

### 10.6 Hazardous Decomposition Products

No information available

## 11. Toxicological Information

### 11.1 Information on Toxicological Effects

#### Acute toxicity

##### Local effects

Inhalation	There is no data available for this product.
Eye contact	Irritating to eyes.
Skin contact	Slightly irritating.
Ingestion	There is no data available for this product.

LD50 Oral	> 2000 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rat)
LC50 Inhalation:	> 5.144 mg/l

#### Chronic toxicity

Skin Corrosion/Irritation	No information available.
sensitization	Did not cause sensitization.
Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive effects	No information available
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.



## 12. Ecological Information

### 12.1 Toxicity

EC50/72h/algae = >100 mg/L  
EC50/48h/daphnia = 5.81 mg/L  
LC50/fish/96 h = 3.2 mg/L

### 12.2 Persistence and Degradability

No information available

### 12.3 Bioaccumulative Potential

No information available

### 12.4 Mobility in Soil

No information available.

### 12.5 Results of PBT and vPvB Assessment

No information available

### 12.6 Other Adverse Effects

No information available.

## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

<b>Waste from Residues / Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.
<b>EWC waste disposal No</b>	020108 - agrochemical waste containing dangerous substances.
<b>OTHER INFORMATION</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

## 14. Transport Information

### ADR/RID

14.1 UN-No	UN1993
14.2 Proper shipping name	Flammable liquid, n.o.s. (Hydrocarbons, C9, aromatics)
14.3 Hazard class	3
14.4 Packing group	III
14.5 Environmental Hazard	DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions	274, 601, 640E
Tunnel restriction code	(D/E)

### IMDG/IMO

14.1 UN-No	UN1993
14.2 Proper shipping name	Flammable liquid, n.o.s. (Hydrocarbons, C9, aromatics)
14.3 Hazard class	3
14.4 Packing group	III
14.5 Environmental Hazard	Marine Pollutant
14.6 Special Provisions	223, 274, 955

### IATA/ICAO

14.1 UN-No	UN1993
14.2 Proper shipping name	Flammable liquid, n.o.s. (Hydrocarbons, C9, aromatics)
14.3 Hazard class	3
14.4 Packing group	III
14.5 Environmental Hazard	DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions	A3

## 15. Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n° MAPP 13745

- To avoid risks to man and the environment, comply with the instructions for use

### International Inventories

TSCA	Complies
EINECS/ ELINCS	Complies
DSL/NDL	Complies
PICCS	Complies
ENCS	Complies
China	Complies
AICS	Complies
KECL	Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 AICS - Australian Inventory of Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## 16. Other Information

### Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable  
R37 - Irritating to respiratory system  
R41 - Risk of serious damage to eyes  
R65 - Harmful: may cause lung damage if swallowed  
R66 - Repeated exposure may cause skin dryness or cracking  
R67 - Vapours may cause drowsiness and dizziness

R37/38 - Irritating to respiratory system and skin  
R36/37/38 - Irritating to eyes, respiratory system and skin  
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  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
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  
EUH066 - Repeated exposure may cause skin dryness or cracking

**Revision date** 16-Jan-2015

**Revision note** Sections updated: 2 Classification according to regulation (EC) No 1272/2008 (CLP)  
**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### Disclaimer

The information contained is based on our knowledge of the product at the date of publishing.  
It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.  
Users are advised of possible additional hazards when the product is used in applications for which it was not intended.  
This sheet shall only be used and duplicated for prevention and Safety purposes.  
For rates and use recommendations, refer to the information displayed on the packaging.  
It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

**End of Safety Data Sheet**