

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

R-code(s) 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 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

EUH066 - Repeated exposure may cause skin dryness or cracking

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

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
Eye contact	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
Skin contact	Wash off immediately with plenty of water If symptoms persist, call a physician
Ingestion	Rinse mouth with water Do NOT induce vomiting Call a physician or poison control center immediately
Inhalation	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

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

5.2 Special hazards arising from the substance or mixture

Special Hazard	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

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

Eye protection	Safety glasses with side-shields.
Skin protection	Long sleeved clothing.
Hand protection	Protective gloves.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Environmental exposure controls No information available

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

appearance	dark yellow
Physical state	liquid
	Emulsifiable concentrate
Odor	characteristic

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	7.5	(1% solution)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	56.5 °C	
flammability (solid, gas)	Not applied	
Surface tension	29.76 mN/m	(25°C)
Relative Density	0,98 kg/l	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
decomposition temperature	No information available	
viscosity	2.02 mPas	Dynamic viscosity
Oxidizing properties	Non oxidizing	
Explosive properties	According to the chemical structure no explosion reaction is expected.	

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

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
EWC waste disposal No	020108 - agrochemical waste containing dangerous substances.
OTHER INFORMATION	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/NDSL	Complies
PICCS	Complies
ENCS	Complies
China	Complies
AICS	Complies
KECL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - 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