

TEAMFORCE

Preparation Date 10-Apr-2014

Revision date 12-Dec-2014

Revision Number: 2

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

1.1 Identification of the product

Product code HBZ02
Product Description: TEAMFORCE
Synonyms ETHOFUMESATE/PHENMEDIPHAM 100/80 G/L EC
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 6YN Cheshire
UK
Telephone +44 (0) 1925 819999
Telefax +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

Symbol(s)	Xn - Harmful N - Dangerous for the environment
R-code(s)	Carc. cat. 3;R40 - Xn;R21/22 - Xi;R37 - N;R51/53

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

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

Acute oral toxicity	Category 4 - H302
Germ cell mutagenicity	Category 2 - H341
Carcinogenicity	Category 2 - H351
STOT - Single Exposure	Category 3 - H335
Chronic aquatic toxicity	Chronic 3 - H412

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)
R37 - Irritating to respiratory system
R40 - Limited evidence of a carcinogenic effect
R21/22 - Also harmful in contact with skin and if swallowed
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s)
S 2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal feedingstuffs
S20/21 - When using, do not eat, drink or smoke
S35 - This material and its container must be disposed of in a safe way
S36/37 - Wear suitable protective clothing and gloves
S46 - If swallowed, seek medical advice immediately and show this container or label
S57 - Use appropriate container to avoid environmental contamination

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



signal word

WARNING

hazard statements

H302 - Harmful if swallowed
H335 - May cause respiratory irritation
H341 - Suspected of causing genetic defects
H351 - Suspected of causing cancer
H412 - Harmful to aquatic life with long lasting effects

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P273 - Avoid release to the environment
P281 - Use personal protective equipment as required
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P330 - Rinse mouth

P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P312 - Call a POISON CENTER or doctor if you feel unwell
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/ container in accordance with national regulation

EU Specific Hazard Statements

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.
Ethofumesate	247-525-3	26225-79-6	10 - 20	N; R51/53	Aquatic Chronic 2 (H411)	no data available
Phenmedipham	237-199-0	13684-63-4	5 - 10	N; R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
Isophorone	201-126-0	78-59-1	60 - 70	Carc. Cat.3;R40 Xi;R36/37 Xn;R21/22	Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT SE 3 (H335) Carc. 2 (H351) Eye Irrit. 2 (H319)	no data available
Mixture of anionic and non-ionic derivates	-	-	20 - 30	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	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	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If eye irritation persists, consult a specialist
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Consult a physician
Ingestion	Call a physician or poison control center immediately
Inhalation	Move to fresh air Call a POISON CENTER or doctor/physician if you feel unwell

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

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

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 Thermal decomposition can lead to release of toxic and corrosive gases/vapors

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
Avoid contact with the skin and the eyes
Wear protective gloves/clothing and eye/face protection.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so
Do not allow material to contaminate ground water system
Do not flush into surface water or sanitary sewer system

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
Pick up and transfer to properly labelled containers.

7. Handling and Storage

7.1 Precautions for Safe Handling

Handling

Provide adequate ventilation

Ensure that eyewash stations and safety showers are close to the workstation location

Avoid contact with skin, eyes and clothing

Wear personal protective equipment

Hygiene Measures

Do not eat, drink or smoke when using this product

Remove and wash contaminated clothing before re-use

Wash hands after handling

7.2 Conditions for safe storage, including any incompatibilities

Keep locked-up

Store in original container

Keep in a dry, cool and well-ventilated place

Store away from frost.

Keep away from combustible material

Keep away from heat

Keep away from open flames, hot surfaces 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

Chemical name	Eu	United Kingdom	France	Spain	Germany
Isophorone		STEL: 5 ppm STEL: 29 mg/m ³	STEL: 5 ppm STEL: 25 mg/m ³	STEL: 5 ppm STEL: 29 mg/m ³	MAK: 2 ppm MAK: 11 mg/m ³ Ceiling / Peak: 4 ppm Ceiling / Peak: 22 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³
Component	Italy	Portugal	Netherlands	Finland	Denmark
Isophorone 78-59-1 (60 - 70)		Ceiling: 5 ppm		TWA: 1 ppm TWA: 5.7 mg/m ³	Ceiling: 5 ppm Ceiling: 25 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Isophorone	Skin STEL 2 ppm STEL 11 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³ Ceiling 2 ppm Ceiling 11 mg/m ³	STEL: 4 ppm STEL: 22 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	Ceiling: 5 ppm Ceiling: 25 mg/m ³	STEL: 5 ppm STEL: 25 mg/m ³

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	light brown	
Physical state	liquid	
	Emulsifiable concentrate	
Odor	Organic	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	3 - 4	(1% solution)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
flash point	85 °C	
flammability (solid, gas)	Not Applicable	
Surface tension	29 mN/m	
Relative Density	0.99	
Water solubility	Miscible with water	
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	10.32 - 11 mPas	40 °C, Dynamic viscosity
Oxidizing properties	Non oxidizing	
Explosive properties	No	

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

Keep away from open flames, hot surfaces and sources of ignition

10.5 Incompatible Materials

No materials to be especially mentioned

10.6 Hazardous Decomposition Products

Burning produces obnoxious and toxic fumes

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity**Local effects**

Inhalation	Irritating to respiratory system.
Eye contact	No eye irritation. (rabbit).
Skin contact	No skin irritation. (rabbit).
Ingestion	HARMFUL IF SWALLOWED.

LD50 Oral	500 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rat)

Chronic toxicity

Skin Corrosion/Irritation	No information available.
sensitization	No information available.
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 = 7.49 mg/L
 EC50/48h/daphnia = 75.5 mg/L
 LC50/fish/96 h = 28.3 mg/L

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

Chemical name	Log Pow
Ethofumesate	2.7
Phenmedipham	3.59
Isophorone	1.66

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	UN3082
14.2 Proper shipping name	Environmentally hazardous substance, liquid, n.o.s (Ethofumesate, Phenmedipham)
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions	274, 335, 601
Tunnel restriction code	(E)

IMDG/IMO

14.1 UN-No	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s (Ethofumesate, Phenmedipham)
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	Marine pollutant
14.6 Special Provisions	274, 335

IATA/ICAO

14.1 UN-No	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s (Ethofumesate, Phenmedipham)
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions	A97, A158

15. Regulatory Information

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

Registration n° MAPP 14923

- 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	-
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**

R22 - Harmful if swallowed

R37 - Irritating to respiratory system

R40 - Limited evidence of a carcinogenic effect

R21/22 - Also harmful in contact with skin and if swallowed

R36/37 - Irritating to eyes and respiratory system

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

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

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

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

Revision date 12-Dec-2014

Revision note Not applicable

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