



Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006

VOLCANO

Preparation Date 27-Jan-2015

Revision date 20-Dec-2018

Revision Number: 2

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

1.1 Identification of the product

Product code HDH01
Product Description: VOLCANO
Formulation Ethofumesate/Metamitron 150/350 g/L SC
Synonyms Oblix MT
Metafol Super

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

Recommended use Herbicide
Sector(s) of use SU1 - Agriculture, forestry, fishery
Product category PC27 - Plant protection products

1.3 Details of the Supplier of the Safety Data Sheet

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

1.4 Emergency Telephone Number

Emergency Telephone (CARECHEM 24): +44 (0) 1235 239670

United Kingdom	NHS no. 111
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Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral Category 4 - H302

Acute aquatic toxicity Category 1 - H400

Chronic Aquatic Toxicity Category 2 - H411

Additional information

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

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



signal word

WARNING

Hazard Statements

H302 - Harmful if swallowed

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P391 - Collect spillage

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
- EUH208 - Contains (1,2-Benzisothiazol-3(2H)-one). May produce an allergic reaction

2.3 Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
metamitron	41394-05-2	255-349-3	613-129-00-8	-	30 - 40	Acute Tox. 4 (H302) Aquatic Acute 1 (H400)
Ethofumesate	26225-79-6	247-525-3	607-314-00-2	-	10 - 20	Aquatic Chronic 2 (H411)
Fatty Alcohol Ethoxylate	68131-39-5	-	-	-	1 - 5	Eye Dam. 1 (H318) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	-	< 1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

Full text of H- and EUH-phrases: see section 16

Section 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)

Inhalation

- Move to fresh air
- Call a POISON CENTER or doctor if you feel unwell

Eye contact

- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing 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

Ingestion

- Do NOT induce vomiting
- Call a POISON CENTER or doctor if you feel unwell

Self-protection of the first aider

- First aider: Pay attention to self-protection

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms

- No information available

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians

- Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

- Water spray
- Dry powder
- Foam
- Carbon dioxide (CO₂)

Unsuitable extinguishing media

- No information available

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

- Thermal decomposition may release toxic fumes

5.3 Advice for Firefighters

- Wear self-contained breathing apparatus and protective suit

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures**For non-emergency personnel***Personal Precautions*

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

Emergency procedures

- Evacuate personnel to safe areas
- Keep away from flames and hot surfaces
- Keep away from heat

Emergency responder

- Use personal protective equipment as required
- Evacuate personnel to safe areas

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 material for containment and cleaning up**Methods for containment**

- Prevent further leakage or spillage if safe to do so
- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

Methods for cleaning up

- Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards

- Clean contaminated objects and areas thoroughly observing environmental regulations

6.4 Reference to other sections

- No information available

Section 7: HANDLING AND STORAGE**7.1 Precautions for safe handling****Advice on safe handling**

- Provide adequate ventilation
- Use personal protection equipment
- Ensure that eyewash stations and safety showers are close to the workstation location

General hygiene considerations

- Do not eat, drink or smoke when using this product
- Wash hands before breaks and immediately after handling the product
- Remove contaminated clothing and protective equipment before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed in a dry and well-ventilated place

7.3 Specific end uses

- Please refer to the product labeling and packaging for information about appropriate use

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits

- Apply technical measures to comply with the occupational exposure limits
- <https://www.dguv.de/ifa/gestis/index-2.jsp>
- <https://osha.europa.eu/en/themes/dangerous-substances>

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/face protection

- Safety glasses with side-shields
- Eye protection must conform to standard EN 166

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.

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.

- Gloves must conform to standard EN 374 • 2003 JKL, EN388 4121
- Material : Nitrile rubber/Nylon
- Glove thickness : 0.5 mm
- Rate of permeability : > 480 min

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.

Respiratory protection

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

General hygiene considerations

- Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

- Local authorities should be advised if significant spillages cannot be contained
- Do not allow into any sewer, on the ground or into any body of water
- Prevent product from entering drains

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	white	
Physical state	Liquid suspension concentrate (SC)	
Odor	characteristic	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	6.3 - 7.4	(1% solution)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	> 75 °C	EEC A.9
Flammability (solid, gas)	Not applicable	
Surface tension	25 - 28 mN/m	EC A.5
Relative Density	1.1401	EEC A.3
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	42 - 51 mPas	OECD 114 Dynamic viscosity
Oxidizing properties	Non oxidizing	
Explosive properties	Not an explosive	

9.2 OTHER INFORMATION

VOC Content No information available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

- No information available

10.2 Chemical stability

- Stable under normal conditions

10.3 Possibility of hazardous reactions

- None under normal processing

10.4 Conditions to avoid

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

10.5 Incompatible Materials

- Strong acids
- Strong oxidizing agents

10.6 Hazardous Decomposition Products

- Thermal decomposition giving flammable and toxic products.
- Carbon oxides
- Nitrogen oxides (NO_x)
- Oxides of sulfur

Section 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects****Acute toxicity**

LD50 Oral > 300 mg/kg (rat) - OECD 420

LD50 Dermal > 2000 mg/kg (rat) - OECD 402

Skin corrosion/irritation

- No skin irritation

Serious eye damage/eye irritation

- No eye irritation

Respiratory or skin sensitization

- Not a skin sensitizer

Germ cell mutagenicity

- No information available

Carcinogenicity

- No information available

Reproductive toxicity

- No information available

Summary of evaluation of the CMR properties

- No information available

Specific target organ toxicity (single exposure)

- No information available

Specific target organ toxicity (repeated exposure)

- No information available

Aspiration hazard

- No information available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

EC50/72h/algae = 1.31 mg/L (OECD 201)

EC50/48h/daphnia = 69 mg/L (OECD 202)

EC50/7d/Lemna= 2.91 mg/L (OECD 221)

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
metamitron	E _b C ₅₀ 72 h: = 0.4 mg/L Biomass E _r C ₅₀ 72 h: = 1.8 mg/L Grow rate (Pseudokirchneriella subcapitata)	EC50 96 h: > 190mg/L (Oncorhynchus mykiss)	-	EC50 48 h: = 5.7 mg/L (Daphnia magna)
Ethofumesate	EyC ₅₀ 72h: = 9.68 mg a.s./L (Pseudokirchneriella subcapitata)	LC50 96 h: = 10.92 mg a.s./L (Cyprinus carpio)	-	EC50 96 h: = 13.52 mg a.s./L (Daphnia magna) Eastern oyster EC50 96 h: = 1.7 mg a.s./L (Crassostrea virginica)

12.2 Persistence and Degradability

- No information available

12.3 Bioaccumulative Potential

- -

Chemical name	Log Pow
metamitron	0.83
Ethofumesate	2.7
1,2-Benzisothiazolin-3-one	1.3

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

Section 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

Section 14: TRANSPORTATION INFORMATION**14.1 UN Number**

- *ADR, IMDG, IATA* : UN3082

14.2 UN proper shipping name

- *ADR* : Environmentally hazardous substance, liquid, n.o.s.
- *IMDG* : Environmentally hazardous substance, liquid, n.o.s
- *IATA* : Environmentally hazardous substance, liquid, n.o.s

14.3 Transport Hazard Class(es)*Hazard class*

- *ADR, IMDG, IATA* : 9

Subsidiary class

- *ADR, IMDG, IATA* : Not applicable

14.4 Packing Group

- *ADR, IMDG, IATA* : III

14.5 Environmental Hazards

- *ADR, IATA* : Yes
- *IMDG* : Marine pollutant

14.6 Special Precautions for User*Special Provisions*

- *ADR* : 274, 335, 375, 601
- *IMDG* : 274, 335, 969
- *IATA* : A97, A158, A197

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE

- Not applicable

Section 15: REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

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

Registration n°

MAPP 18926

15.2 Chemical safety assessment

- For this substance a chemical safety assessment has not been carried out

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H400 - Very toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

Abbreviations and acronyms

- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association
- EC No : EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- CAS : Chemical Abstracts Service
- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
- Very Persistent and very Bioaccumulative (vPvB) Chemicals
- EWC : European Waste Catalogue

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Revision date 20-Dec-2018

Reason for revision **New formatting**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015

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