



# Safety Data Sheet

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

## DEVRIINOL

Preparation Date 31-Mar-2014

Revision date 19-Sep-2019

Revision Number: 5

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

#### 1.1 Identification of the product

Product code	HAR01
Product Description	DEVRIINOL
Formulation	Napropamide 450 g/L SC
Synonyms	-
Pure substance/preparation	Preparation

#### 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 Engine Rooms Birchwood Park Warrington WA3 6YN Cheshire UK Tel. : +44 (0) 1925 819999 Fax : +44 (0) 1925 856075
E-mail address	sds.info@upl-ltd.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]****Chronic Aquatic Toxicity**                      Category 1 - (H410)**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**

H410 - Very toxic to aquatic life with long lasting effects

**Precautionary statements**

P391 - Collect spillage

P501 - Dispose of contents/ container in accordance with national regulation

**EU Specific Hazard Statements**

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

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**2.3 Other Hazards**

No information available

<b>Section 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**3.2. Mixtures**

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Napropamide	15299-99-7	239-333-3	-	-	40 - 50	Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Ethylene glycol	107-21-1	203-473-3	603-027-00-1	01-2119456816-28	5 - 10	Acute Tox. 4 (H302)
Fatty Alcohol Ethoxylate	68131-39-5	500-195-7	-	01-2119488720-33	< 1	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**

- 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
- 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**

- As aqueous suspension ignition and fire is not likely
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### **Unsuitable extinguishing media**

- No information available

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

#### **Hazardous combustion products**

- No information available

### 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

#### **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

#### **Methods for cleaning up**

- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

#### **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 only outdoors or in a well-ventilated area
- 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
- Keep away from food, drink and animal feeding stuffs
- Avoid contact with skin and eyes
- 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 only in the original container/package in a cool 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

Chemical name	Eu	United Kingdom	France	Spain	Germany
Ethylene glycol 107-21-1	S* TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup>	STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> Skin	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	S* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> Skin	Ceiling: 100 mg/m <sup>3</sup>	Skin STEL: 104 mg/m <sup>3</sup> TWA: 52 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 50 mg/m <sup>3</sup> STEL: 40 ppm STEL: 100 mg/m <sup>3</sup> Skin	TWA: 10 ppm TWA: 26 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> Skin
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Ethylene glycol 107-21-1	Skin STEL 20 ppm STEL 52 mg/m <sup>3</sup> TWA: 10 ppm TWA: 26 mg/m <sup>3</sup>	Skin STEL: 20 ppm STEL: 52 mg/m <sup>3</sup> TWA: 10 ppm TWA: 26 mg/m <sup>3</sup>	STEL: 50 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> Skin Ceiling: 25 ppm STEL: 104 mg/m <sup>3</sup> STEL: 40 ppm	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> Skin

### 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: • (EN388 4121, EN 374-2003 JKL)
- Material : Nitrile rubber
- 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**

<b>Appearance</b>	Opaque	
<b>Physical state</b>	Liquid, suspension concentrate (SC)	
<b>Odor</b>	Organic	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	7.27	CIPAC MT 75.3
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	> 100 °C	
<b>Flash Point</b>	No information available	
<b>Flammability (solid, gas)</b>	Not applied	
<b>Surface tension</b>	40.5 mN/m @ 20 °C	EC A.5
<b>Relative Density</b>	1.101	20°C, CIPAC MT 3.3.2
<b>Water solubility</b>	Miscible with water	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	>400 °C	EC A.15
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	15097 mPas (@ 0.2 rpm)	20 °C, Dynamic viscosity, OECD 114
<b>Oxidizing properties</b>	Non oxidizing (EC A.21)	
<b>Explosive properties</b>	Not an explosive (EC A.14)	

**9.2 OTHER INFORMATION**

**VOC Content** No information available



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**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**

- No materials to be especially mentioned

**10.6 Hazardous Decomposition Products**

- No information available

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**Section 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on Toxicological Effects****Acute toxicity**

*LD50 Oral* > 5000 mg/kg (rat) - EC B.1.tris  
*LD50 Dermal* > 2000 mg/kg (rat) - EC B.3  
*LC50 Inhalation* > 3.429 mg/l (rat) - EC B.2

**Skin corrosion/irritation**

- Non-irritant: Rabbit; OECD 404

**Serious eye damage/eye irritation**

- No eye irritation: Rabbit; OECD 405

**Respiratory or skin sensitization**

- skin: Did not cause sensitization, Guinea pig; OECD 406

**Germ cell mutagenicity**

- Not classified

**Carcinogenicity**

- Not classified

**Reproductive toxicity**

- Not classified

**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**

*EC50/48h/daphnia* = 8 mg a.s./L (Daphnia magna) - OECD 202  
*EC50/96h/algae* = 1.71 mg a.s./L (Pseudokirchneriella capricornutum) - OECD 201  
*EC50/7d/lemna* = 0.067 mg a.s./L (Lemna gibba) - OECD 221  
*LC50/fish/96 h* = 6.6 mg a.s./L (Oncorhynchus mykiss) - OECD 204

**12.2 Persistence and Degradability**

- No information available

**12.3 Bioaccumulative Potential**

Chemical name	Log Pow
Ethylene glycol	-1.93
1,2-Benzisothiazolin-3-one	1.3

**12.4 Mobility in Soil**

- No information available

**12.5 Results of PBT and vPvB Assessment**

- This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)
- This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

**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: TRANSPORT INFORMATION

### 14.1 UN Number

- ADR, IMDG, IATA : UN3082

### 14.2 UN proper shipping name

- ADR : Environmentally hazardous substance, liquid, n.o.s ( Napropamide )
- IMDG : Environmentally hazardous substance, liquid, n.o.s ( Napropamide )
- IATA : Environmentally hazardous substance, liquid, n.o.s ( Napropamide )

### 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 : DANGEROUS FOR THE ENVIRONMENT
- 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

Registration n° MAPP 17853

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

### 15.2 Chemical safety assessment

- 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
- H319 - Causes serious eye 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

**Classification procedure**

Calculation method: Sections, 9, 12

On basis of test data: SECTION, 11

**Abbreviations and acronyms**

- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CAS : Chemical Abstracts Service
- EC No : EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- LDx : Lethal dose to x %
- LCx : Lethal concentration to x %
- ECx : Effective concentration to x %
- 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
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association

**Preparation Date** 31-Mar-2014

**Revision date** 19-Sep-2019

**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**