

**Safety Data Sheet**  
according to Regulation (EC) No.  
1907/2006 (REACH)

SCHWEIZER-EFFAX since 1908



**Trade name :** Effol Horsefly-Blocker + "horse&rider"  
**Revision date :** 13.12.2022  
**Print date :** 30.01.2024

**Version :** 1.0.0

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Effol Horsefly-Blocker + "horse&rider"  
Unique Formula Identifier (UFI) : 0KNT-WA36-U00F-6XYT  
Product category : PP-BIO-19 - Repellents and attractants

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

Biocidal products

#### Sectors of use [SU]

Consumer uses: Private households (= general public = consumers)

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Schweizer-Effax GmbH

**Street :** Westring 24

**Postal code/City :** 48356 Nordwalde

**Country :** Deutschland

**Telephone :** +49 2573 9373-0

**Telefax :** +49 2573 9373-73

**Information contact :** info@schweizer-effax.de  
www.schweizer-effax.de

### 1.4 Emergency telephone number

Germany: Poisons Information Centre Berlin  
Charité – Universitätsmedizin Berlin  
Campus Benjamin Franklin  
Haus VIII, UG  
Hindenburgdamm 30  
D-12203 Berlin  
+49(0)30/30686 700, Internat. INFOTRAC +1 3523233500

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

### 2.2 Label elements

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

##### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

#### Signal word

Warning

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## Hazard statements

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

## Precautionary statements

P102 Keep out of the reach of children.  
P101 If medical advice is needed, have product container or label at hand.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container to hazardous or special waste collection point

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $\geq 25 - < 30$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319  
Specific Conc. Limits : Eye Irrit. 2 ; H319: C  $\geq 50$  %

1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)- 1-methylpropyl ester ; REACH No. : 01-0000016971-65 ; EC No. : 423-210-8; CAS No. : 119515-38-7

Weight fraction :  $\geq 15 - < 20$  %  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

#### Further ingredients

1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)- 1-methylpropyl ester ; REACH No. : 01-0000016971-65 ; EC No. : 423-210-8; CAS No. : 119515-38-7

Weight fraction :  $\geq 14,5 - < 15$  %

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### Following inhalation

Provide fresh air. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### Following ingestion

If swallowed, immediately drink: Water  
Call a physician immediately.

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#### 4.2 Most important symptoms and effects, both acute and delayed

Headache , Nausea , Dizziness

##### Symptoms

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.  
In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

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

treatment: Symptoms (decontamination, vital functions), no known specific antidote.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) , Extinguishing powder , Water mist , alcohol resistant foam  
Co-ordinate fire-fighting measures to the fire surroundings.

##### Unsuitable extinguishing media

Full water jet Strong water jet

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

Thermal decomposition can lead to the escape of irritating gases and vapours.

#### 5.3 Advice for firefighters

##### Special protective equipment for firefighters

Full protection suit , Use suitable breathing apparatus.

#### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: Accidental release measures

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

Provide adequate ventilation. See protective measures under point 7 and 8. Special danger of slipping by leaking/spilling product.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Handle and open container with care. Use only in well-ventilated areas.  
Avoid: generation/formation of aerosols

##### Protective measures

##### Measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Always

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close containers tightly after the removal of product.

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

Avoid: UV-radiation/sunlight

Do not expose to temperatures above 50 °C. Keep container tightly closed and in a well-ventilated place.

#### Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Ensure adequate ventilation of the storage area. Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

**Storage class (TRGS 510) :** 3

### 7.3 Specific end use(s)

Observe instructions for use. see section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 200 ppm / 380 mg/m<sup>3</sup>

Peak limitation : 4(II)

Remark : Y

Version : 23.06.2022

POLYETHYLENE GLYKOLS 200 - 400 ; CAS No. : 25322-68-3

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 200 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : Y

Version : 23.06.2022

#### DNEL-/PNEC-values

##### DNEL/DMEL

ETHANOL ; CAS No. : 64-17-5

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 114 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 206 mg/kg

Assessment factor : day(s)

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 87 mg/kg

Assessment factor : day(s)

Limit value type : DNEL/DMEL (Worker)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 950 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Worker)

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Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 343 mg/kg  
Assessment factor : day(s)

## PNEC

ETHANOL ; CAS No. : 64-17-5

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,96 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,79 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 3,6 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,9 mg/kg  
Limit value type : PNEC (Soil)  
Limit value : 0,63 mg/l  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 0,38 g/kg

## 8.2 Exposure controls

### Personal protection equipment

Use personal protection equipment.

#### Eye/face protection



Eye glasses with side protection EN 166

#### Skin protection

##### Hand protection



**By short-term hand contact :** Suitable gloves type Disposable gloves. NBR (Nitrile rubber)

**By long-term hand contact :** Check leak tightness/impermeability prior to use.

Suitable material CR (polychloroprene, chloroprene rubber) Butyl caoutchouc (butyl rubber)

Breakthrough time 480 min

Thickness of the glove material 5 mm

**Remark :** When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

##### Body protection

Wear anti-static footwear and clothing

Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres

Chemical resistant safety shoes DIN EN 13832-2

#### Respiratory protection

Usually no personal respiratory protection necessary.

#### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid  
**Colour :** colourless  
**Odour :** Alcohol

#### Safety characteristics

<b>Physical state :</b>		Liquid	
<b>Melting point/freezing point :</b>		not applicable	
<b>Decomposition temperature :</b>		not determined	
<b>Flash point :</b>		25,8	°C
<b>Auto-ignition temperature :</b>		not applicable	
<b>Lower explosion limit :</b>		not applicable	
<b>Upper explosion limit :</b>		not applicable	
<b>Density :</b>	( 20 °C )	0,976 - 0,982	g/cm <sup>3</sup>
<b>Water solubility :</b>	( 20 °C )	0 - 100	Weight-%
<b>Fat solubility :</b>	( 20 °C )	Not determined.	
<b>pH :</b>		5 - 7	
<b>log P O/W :</b>		not determined	
<b>Viscosity :</b>	( 20 °C )	<	20 mPa*s
<b>Cinematic viscosity :</b>	( 40 °C )		not relevant
<b>Odour threshold :</b>			not determined
<b>Relative vapour density :</b>	( 20 °C )		not determined
<b>Vapourisation rate :</b>			not determined
<b>Maximum VOC content (EC) :</b>		28,6	Weight-%
<b>Flammable solids :</b>		Not applicable.	
<b>Flammable gases :</b>		Not applicable.	
<b>Oxidising liquids :</b>		Not relevant.	
<b>Explosive properties :</b>		Not applicable.	
<b>Corrosive to metals :</b>		Not relevant.	

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

See section 7 of the safety data sheet.

### 10.5 Incompatible materials

Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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Based on available data, the classification criteria are not met.

**Corrosion**

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

Endocrine disrupting potential:

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity

The product has not been tested. The statements on toxicology were derived from the properties of the individual components.

**SECTION 12: Ecological information**

**12.1 Toxicity**

The product has not been tested. The statement is derived from the properties of the single components.

**Aquatic toxicity**

Based on available data, the classification criteria are not met.

**12.2 Persistence and degradability**

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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### 12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.8 Additional ecotoxicological information

**Additional information**

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

### 13.2 Additional information

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 1170

### 14.2 UN proper shipping name

**Land transport (ADR/RID)**

ETHANOL, SOLUTION

**Sea transport (IMDG)**

ETHANOL, SOLUTION

**Air transport (ICAO-TI / IATA-DGR)**

ETHANOL, SOLUTION

### 14.3 Transport hazard class(es)

**Land transport (ADR/RID)**

**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 30  
**Tunnel restriction code :** D/E  
**Special Provisions :** LQ 5 | · E 1  
**Hazard label(s) :** 3

**Sea transport (IMDG)**

**Class(es) :** 3  
**EmS-No. :** F-E / S-D  
**Special Provisions :** LQ 5 | · E 1  
**Hazard label(s) :** 3

**Air transport (ICAO-TI / IATA-DGR)**

**Class(es) :** 3  
**Special Provisions :** E 1  
**Hazard label(s) :** 3

### 14.4 Packing group

III



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#### 14.5 Environmental hazards

**Land transport (ADR/RID) :** No  
**Sea transport (IMDG) :** No  
**Air transport (ICAO-TI / IATA-DGR) :** No

#### 14.6 Special precautions for user

None

#### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU legislation

Biocide directive ((EU) No. 528/2012)

##### Authorisations and/or restrictions on use

###### Restrictions on use

##### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

##### National regulations

###### Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

#### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture a chemical safety assessment has been carried out :

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)- 1-methylpropyl ester ; REACH No. : 01-0000016971-65 ; EC No. : 423-210-8; CAS No. : 119515-38-7

### SECTION 16: Other information

#### 16.1 Indication of changes

None

#### 16.2 Abbreviations and acronyms

ADR = European Agreement concerning the carriage of Dangerous goods by Road

ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways

ATE = Estimated values for acute toxicity

AwSV = Ordinance on Installations for Handling Substances Hazardous to Water

CAS = Chemical Abstract Service Number

CE = European Community

CLP = EC Regulation 1272/2008

CMR = cancerogen mutagen reprotoxic

DIN = German Institute for Standardisation

DNEL = Derived No Effect Level

DMEL = Derived Minimum Effect Level

EC50 = Mean effective concentration that induces a defined effect other than death in a test population

EG = European Community

EN = European standards

IATA = International Air Transport Association Dangerous Goods Regulation

IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities

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IMDG = International Maritime Code for dangerous goods  
ISO = International Organization for Standardization  
LC50 = Lethal Concentration 50%  
LD50 = Lethal dose 50%  
MAK = Maximum workplace concentration  
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter  
NOEC = No Observed Effect Concentration  
OECD = Organisation for Economic Cooperation and Development  
PBT = Persistent, bioaccumulative and toxic  
pH = potential of hydrogen  
PNEC = Predicted no effect concentration  
PPM = parts per million  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)  
RID = Regulation concerning the international transport of dangerous goods by train  
TRGS = Technical rules for hazardous substances (german rules)  
TWA = Time-weighted average exposure limit  
UN-Number = UN number for the transport of dangerous goods  
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation  
VOC = Volatile organic Compounds

**16.3 Key literature references and sources for data**

None

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

**16.5 Relevant H- and EUH-phrases (Number and full text)**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

**16.6 Training advice**

None

**16.7 Additional information**

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.