

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

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

- **Product identifier**
- **Trade name: Penta-Sol Ultra**
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the preparation** Fat/Grease solvent for professional use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BurnusHychem GmbH
Rößlerstraße 94 D-64293
Darmstadt Tel. +49-66 63
976 100 Fax +49-66 63
976 200
Email: contact@burnushychem.com
- **Distributor:**
Burnus General Trading Co.
L.L.C. P.O. Box: 231374
Dubai / United Arab Emirates
Fon: +971 4 2688845
Fax: +971 4 2685589
Email: burnus@eim.ae
- **Further information obtainable from:** Telefon: +49-66 63-976-100
- **Department issuing MSDS:** J.Wenninger@burnushychem.com
- **Emergency telephone number:**
Beratungsstelle bei Vergiftungen,
Universitätsklinikum Mainz Telefon: 06131-19240

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Xn; Harmful
R22:Harmful if swallowed.
.....
Xi; Irritant
R41:Risk of serious damage to eyes.
.....
Xi; Sensitising
R43:May cause sensitisation by skin contact.
.....
N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

(Contd. on page 2)

AE EN

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 1)

- Label elements**- Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product: Xn Harmful

N Dangerous for the environment

- Hazard-determining components of labelling:

(R)-p-mentha-1,8-diene
fatty alcohol ethoxylate (>5-20 EO)

- Risk phrases:

22Harmful if swallowed.
41Risk of serious damage to eyes.
43May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Safety phrases:

23 Do not breathe vapour/spray. 24/25
Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
57Use appropriate container to avoid environmental contamination.
60This material and its container must be disposed of as hazardous waste.

- Other hazards**- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients**- Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 69011-36-5 Polymer	fatty alcohol ethoxylate (>5-20 EO) Xn R22; Xi R41 H301; H318	25-<100%
CAS: 69011-36-5 Polymer	fatty alcohol ethoxylate (2-5 EO) Xi R41 H318	25-<100%
	fatty alcohol Xi R38; N R50 H400; H315	3-<10%

(Contd. on page 3)

AE-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 2)

CAS: 5989-27-5	(R)-p-mentha-1,8-diene	3-<10%
EINECS: 227-813-5	Xi R38; Xi R43; N R50/53	
Index number: 601-029-00-7	R10	
	H226; H400; H410; H315; H317	

- Regulation (EC) No 648/2004 on detergents:

non-ionic surfactants	30%
aliphatic hydrocarbons	< 5%
perfumes (LIMONENE)	

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures

- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove any clothing soiled by the product.

- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water. If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

- Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.

- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

- AE EN -

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 3)

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 10 for information on "stability and reactivity".
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
No special precautions are necessary if used and stored according to specifications.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed. Protect from frost.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- Ingredients with limit values that require monitoring at the workplace: fatty alcohol	
AGW (Germany)	164 mg/m ³ , 20 ppm 1(I);AGS
5989-27-5 (R)-p-mentha-1,8-diene	
AGW (Germany)	110 mg/m ³ , 20 ppm 2(II);DFG, Sh, Y

- **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 5)

AE-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 4)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation. filter A (EN 141)
- **Protection of hands:**
Protective gloves (EN 374)
Check protective gloves prior to each use for their proper condition. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Yellowish
- **Odour:** Like an orange
- **Odour threshold:** Not determined.
- **pH-value at 20 °C:** 6
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** > 65 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**

Decomposition temperature:	Not determined.
-----------------------------------	-----------------
- **Self-igniting:** Product is not self-igniting.

(Contd. on page 6)

AE-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 5)

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0,97 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Emulsifiable.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Other information:** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:** Forms explosive gas mixture with air.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous products of decomposition if used and stored according to specifications.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Frequent and/or persistent contact with skin may cause skin irritation.
 - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
 - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
 - Harmful
 - Irritant
 - No experimentally found toxicological data are available for this preparation.

AE-EN

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 6)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Danger to drinking water if even small quantities leak into the ground. Do not allow product to reach ground water, water course or undiluted sewage system. Also poisonous for fish and plankton in water bodies.
 The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
 Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---|
| - UN-Number | |
| - ADR, IMDG, IATA | UN3082 |
| - UN proper shipping name | |
| - ADR | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE) |
| - IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE), MARINE POLLUTANT |
| - IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE) |

(Contd. on page 8)

AE-EN

Safety data sheet
according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 7)

- Transport hazard class(es)	
- ADR	
- Class	9 (M6) Miscellaneous dangerous substances and articles.
- Label	9
<hr/>	
- IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles.
- Label	9
- Packing group	
- ADR, IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene
- Marine pollutant:	Yes
	Symbol (fish and tree)
- Special marking (ADR):	Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
- Danger code (Kemler):	90
- EMS Number:	F-A,S-F
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Transport/Additional information:	
<hr/>	
- ADR	
- Limited quantities (LQ)	5L
- Transport category	3
- Tunnel restriction code	E

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product: Xn Harmful

N Dangerous for the environment

(Contd. on page 9)

AE-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 03.01.2018

Trade name: Penta-Sol Ultra

(Contd. of page 8)

- Hazard-determining components of labelling:

(R)-p-mentha-1,8-diene
fatty alcohol ethoxylate (>5-20 EO)

- Risk phrases:

22 Harmful if swallowed.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Safety phrases:

23 Do not breathe vapour/spray. 24/25
Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
57 Use appropriate container to avoid environmental contamination.
60 This material and its container must be disposed of as hazardous waste.

- National regulations:

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
R10 Flammable.
R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

AE-EN