SAFETY DATA SHEET
2WORK PINE DISINFECTANT

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

1.1. Product identifier

Product name: 2WORK PINE DISINFECTANT
Product code: 2W03986

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

Use of substance / mixture: PC8: Biocidal products (e.g. Disinfectants, pest control).

1.3. Details of the supplier of the safety data sheet

Company name: VOW EUROPE LTD
K HOUSE
EUROPA LINK
SHEFFIELD BUSINESS PARK
SHEFFIELD
S9 1XU

Tel: 0844 980 8000

Email: WWW.VOWEUROPE.COM

1.4. Emergency telephone number

Emergency tel: NHS Direct 08454647
NHS24 0845242424
ROI 018092166
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; -: EUH208

Most important adverse effects: Contains p-mentha-1,8-diene. May produce an allergic reaction. Causes serious eye irritation.

2.2. Label elements

Label elements under CLP:

Hazard statements: EUH208: Contains p-mentha-1,8-diene. May produce an allergic reaction.
H319: Causes serious eye irritation.
SAFETY DATA SHEET
2WORK PINE DISINFECTANT

Signal words: Warning
Hazard pictograms: GHS07: Exclamation mark

Precautionary statements:
P102: Keep out of reach of children.
P280: Wear eye protection.
P264: Wash hands thoroughly after handling.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists: Get medical attention.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ISOTRIDEcanoLETHOXYLATE,POLyMER(8 MOLE EO AVERAGE)

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>69011-36-5</td>
<td>-</td>
<td>Acute Tox. 4: H302; Eye Dam. 1: H318</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

<p>| | | | | |</p>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>270-325-2</td>
<td>68424-85-1</td>
<td>-</td>
<td>Met. Corr. 1: H290; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Acute Tox. 4: H302</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

P-MENTHA-1,8-DIENE

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>205-341-0</td>
<td>138-86-3</td>
<td>-</td>
<td>Flam. Liq. 3: H226; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
Inhalation: Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.

[cont...]
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

4.3. Indication of any immediate medical attention and special treatment needed
Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media
Extinguishing media: Water.

5.2. Special hazards arising from the substance or mixture
Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters
Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions
Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up
Clean-up procedures: Transfer to a suitable container.

6.4. Reference to other sections
Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep container tightly closed.
Suitable packaging: Polyethylene.

7.3. Specific end use(s)
Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters
Workplace exposure limits: No data available.
8.2. Exposure controls

Respiratory protection: Respiratory protection not required.
Hand protection: Protective gloves. Gloves (solvent-resistant).
Eye protection: Safety glasses. Ensure eye bath is to hand.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- State: Liquid
- Colour: Green
- Odour: Sweet-smelling
- Evaporation rate: Moderate
- Oxidising: Non-oxidising (by EC criteria)
- Solubility in water: Miscible in all proportions
- Viscosity: Non-viscous
- Boiling point/range°C: 100
- Melting point/range°C: 0
- Flammability limits %: lower: Not applicable.
- Flash point°C: Not applicable.
- Autoflammability°C: Not applicable.
- Relative density: 0.995 - 1.005
- VOC g/l: 7

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

**ISOTRIDECEANOLETHOXYLATE, POLYMER (8 MOLE EO AVERAGE)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>500-2000 mg/kg</td>
</tr>
</tbody>
</table>

**QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES**

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>795 mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

**ISOTRIDECEANOLETHOXYLATE, POLYMER (8 MOLE EO AVERAGE)**

<table>
<thead>
<tr>
<th>Organism</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>1-10 mg/l</td>
</tr>
</tbody>
</table>

**QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES**

<table>
<thead>
<tr>
<th>Organism</th>
<th>EC50/ErC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna</td>
<td>48H EC50</td>
</tr>
<tr>
<td>GREEN ALGA (Selenastrum capricornutum)</td>
<td>72H ErC50</td>
</tr>
<tr>
<td>RAINBOW TROUT (Oncorhynchus mykiss)</td>
<td>96H LC50</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Persistence and degradability: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.
12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H226: Flammable liquid and vapour.
H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
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.

Legend to abbreviations: PNEC = predicted no effect level
DNEL = derived no effect level
LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration

[cont...]
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = phycico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.