

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.12.2010

Revision: 20.12.2010

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

- Product identifier
- Trade name: **Surface Cleaner**
- Relevant identified uses of the substance or mixture and uses advised against none
- Sector of Use
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the preparation: Cleaning agent / Cleaner
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Yellotools Ltd.
Wilberhofener Str.3
51570 Windeck - Wilberhofen
Tel.: 02292 921 928
Fax: 02292 921 938
- Informing department:
Product safety department.
Tel.: +49 02292 921 928
- Emergency telephone number: Zu den üblichen Geschäftszeiten:

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.



F; Highly flammable

R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

- 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.
Has a narcotizing effect.
- Classification system:
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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- Label elements
- Labelling according to EU guidelines:
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- Code letter and hazard designation of product:



Xi Irritant
F Highly flammable

- Hazard-determining components of labelling:
- Risk phrases:
11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.
- Safety phrases:
7/9 Keep container tightly closed and in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
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.
60 This material and its container must be disposed of as hazardous waste.
- Special labelling of certain preparations:
Contains Orangerterpen. May produce an allergic reaction.
- 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 the substances listed below with harmless additions.
 - Dangerous components:
- | | | |
|-------------------------------------|---|---------|
| CAS: 67-63-0
EINECS: 200-661-7 | propan-2-ol
Xi R36; F R11
R67
Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 50-100% |
| CAS: 8028-48-6
EINECS: 232-433-8 | Orangerterpen
Xn R65; Xi R38; Xi R43; N R50/53
R10
Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400;
Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 | <0.2% |
- 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 Instantly remove any clothing soiled by the product.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact The product is generally no skin irritant.
- After eye contact
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- After swallowing In case of persistent symptoms consult doctor.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

- Handling
- Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Initiate measures against electrostatic charging.
- Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: Store in cool location.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol (50-100%)

WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm

OEL (Ireland) Short-term value: 400 ppm

Long-term value: 200 ppm

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- Additional information: The lists that were valid during the compilation were used as basis.

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- Exposure controls
- Personal protective equipment
- General protective and hygienic measures
 - Keep away from foodstuffs, beverages and food.
 - Take off immediately all contaminated clothing
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
- Breathing equipment:
 - In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- Protection of hands:
 - Protective gloves.
 - 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 safety glasses.

9 Physical and chemical properties

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

Form:	Fluid
Colour:	Light yellow
- Odour:

Odour:	Characteristic
Odour threshold:	Not determined.
- pH-value:

pH-value:	Not determined.
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- Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	82°C
- Flash point:

Flash point:	13°C
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- Ignition temperature:

Ignition temperature:	425°C
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- Decomposition temperature:

Decomposition temperature:	Not determined.
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- Self-inflammability:

Self-inflammability:	Product is not selfigniting.
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- Danger of explosion:

Danger of explosion:	Product is not explosive. However, formation of explosive air/ steam mixtures is possible.
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- Critical values for explosion:

Lower:	2.0 Vol %
Upper:	12.0 Vol %
- Vapour pressure at 20°C:

Vapour pressure at 20°C:	48 hPa
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- Density at 20°C

Density at 20°C	0.88 g/cm ³
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- Relative density

Relative density	Not determined.
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- Vapour density

Vapour density	Not determined.
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- Evaporation rate

Evaporation rate	Not determined.
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- Solubility in / Miscibility with Water: Not determined.
- Segregation coefficient (n-octanol/water): Not determined.
- Viscosity:
 - dynamic: Not determined.
 - kinematic: Not determined.
- Solvent content:
 - Organic solvents: 70.7 %
- 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 reaction with strong oxydizers possible
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

67-63-0 propan-2-ol

Oral LD50 4570 mg/kg (rat)
 Dermal LD50 13400 mg/kg (rab)
 Inhalative LC50 (4 h) 30 mg/l (rat)

8028-48-6 Orangenterpen

Oral LD50 >5700 mg/kg (rat)
 Dermal LD50 >5000 mg/kg (rat)
 >2000 mg/kg (rabbit)

- Primary irritant effect:
 - on the skin: Caustic effect on skin and mucous membranes.
 - on the eye:
 - Strong caustic effect.
 - remarkable irritating
 - Sensitization: No sensitizing effect known.
 - Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- Irritant

12 Ecological information

- Toxicity
 - Aquatic toxicity:
- ### 8028-48-6 Orangenterpen
- EC50(24h) 34.1 mg/l (Daphnia magna)
- Behaviour in environmental systems:
 - Bioaccumulative potential No further relevant information available.
 - Mobility in soil No further relevant information available.

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- Additional ecological information:
- General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 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
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID-GGVS/E Class: 3 (F1)
- Kemler Number: 33
- UN-Number: 1993
- Packaging group: II
- Label 3
- UN proper shipping name: 1993 FLAMMABLE LIQUID, N.O.S. (vapor pressure at 50°C at most 110 kPa) (ISOPROPANOL (ISOPROPYL ALCOHOL))
- Tunnel restriction code D/E
- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1993
- Label 3
- Packaging group: II
- EMS Number: F-E,S-E
- Marine pollutant: No
- Correct technical name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1993
- Label 3
- Packaging group: II
- Correct technical name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
- UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II
- Special precautions for user Not applicable.

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- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Technical instructions (air):
- Class Share in %

Wasser	25-50
NK	50-100
- Water hazard class: Water hazard class 1 : slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.
 R11 Highly flammable.
 R36 Irritating to eyes.
 R38 Irritating to skin.
 R43 May cause sensitisation by skin contact.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.

- Department issuing data specification sheet: Environment protection department.
- Contact: Abteilung Labor
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * Data compared to the previous version altered.