

# 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: **Yello-Jack**
- CAS Number:  
67-63-0
- EINECS Number:  
200-661-7
- Index number:  
603-117-00-0
- Registration number 01-2119457558-25-0000
- Relevant identified uses of the substance or mixture and uses advised against none
- Application of the substance / the preparation: Solvents
- 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.
- Emergency telephone number:  
Zu den üblichen Geschäftszeiten:  
Tel.: +49 2292 921 928

## 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.

- Label elements
- Labelling according to Regulation (EC) No 1272/2008  
The substance is classified and labelled according to the CLP regulation.

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- Hazard pictograms



GHS02 GHS07

- Signal word Danger
- Hazard statements
  - H225 Highly flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
- Precautionary statements
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Designation:
  - 67-63-0 propan-2-ol
- Identification number(s):
- EINECS Number: 200-661-7
- Index number: 603-117-00-0
- Additional information: lowest durability: 12 month

## 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.
- After swallowing Seek immediate medical advice.

## 5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents
  - CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- 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.

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- 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 8 for information on personal protection equipment.

## 7 Handling and storage

- Handling
- Precautions for safe handling Keep away from heat and direct sunlight.
- 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.

## 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/m<sup>3</sup>, 500 ppm  
Long-term value: 999 mg/m<sup>3</sup>, 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.
- 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.  
Do not inhale gases / fumes / aerosols.  
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.

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- 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.
- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR
- For the permanent contact gloves made of the following materials are suitable:  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR
- Eye protection: Tightly sealed safety glasses.

## 9 Physical and chemical properties

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

Form:	Fluid
Colour:	Colourless
Odour:	Alcohol-like
- Change in condition
 

Melting point/Melting range:	-89.5°C
Boiling point/Boiling range:	82°C
- Flash point: 13°C
- Ignition temperature: 425°C
- Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- Critical values for explosion:
 

Lower:	2 Vol %
Upper:	12 Vol %
- Vapour pressure at 20°C: 48 hPa
- Density at 20°C 0.785 g/cm<sup>3</sup>
- Solubility in / Miscibility with
 

Water:	Soluble
Organic solvents:	100.0 %
- VOC - EU 100.00 %
- VOC - EU 785.0 g/l
- VOC - CH 100.00 %
- VOC - USA 785.0 g/l / 6.55 lb/gl

## 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 Reacts with strong oxidizing agents
- Hazardous decomposition products: Inflammable gases/vapours

## 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)
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Dermal LD50 13400 mg/kg (rab)

Inhalative LC50 (4 h) 30 mg/l (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effect known.

## 12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Additional ecological information:
- General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 13 Disposal considerations

- Waste treatment methods
- Recommendation  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue  
14 01 03 other solvents and solvent mixes  
07 01 04 other organic solvents, washing liquids and mother liquors  
07 07 04 other organic solvents, washing liquids and mother liquors
- 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: 1219
- Packaging group: II
- Label: 3
- UN proper shipping name: 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
- Tunnel restriction code: D/E

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1219
- Label: 3
- Packaging group: II
- EMS Number: F-E,S-D
- Marine pollutant: No

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- Correct technical name: ISOPROPANOL (ISOPROPYL ALCOHOL)

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1219
- Label: 3
- Packaging group: II
- Correct technical name: ISOPROPANOL (ISOPROPYL ALCOHOL)
- UN "Model Regulation": UN1219, ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II
- Special precautions for user 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 %
  - III 100.0
- 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.

- 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
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
- \* Data compared to the previous version altered.

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