

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.11.2018

Revision: 20.11.2018

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

- 1.1 Product identifier
  - Trade name: **Yello-Jack**
  - CAS Number:  
67-63-0
  - EC number:  
200-661-7
  - Index number:  
603-117-00-0
  - Registration number 01-2119457558-25-XXXX
- 1.2 Relevant identified uses of the substance or mixture and uses advised against none
- Sector of Use
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU21 Consumer uses: Private households / general public / consumers
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the preparation:
  - Cleaning agent / Cleaner
  - Solvents
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  - Yellotools Ltd.
  - Wilberhofener Str.3
  - 51570 Windeck - Wilberhofen
  - Tel.: 02292 3974030
  - Fax: 02292 3974049
- Informing department: Product safety department.
- 1.4 Emergency telephone number:
  - Available during the conventional business hours
  - Tel.: +49 2292 3974030

### SECTION 2: Hazards identification

- 2.1 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.

- 2.2 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-determining components of labelling:  
propan-2-ol

· 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, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Designation:

67-63-0 propan-2-ol

· Identification number(s):

· EC number: 200-661-7

· Index number: 603-117-00-0

· Additional information: lowest durability: 12 month

## SECTION 4: First aid measures

· 4.1 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.

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

No further relevant information available.

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

No further relevant information available.

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## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- 6.4 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.

## SECTION 7: Handling and storage

- 7.1 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.
- 7.2 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 oxidising agents.
  - Further information about storage conditions:  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.
- 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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

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**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

Sk
- Additional information: The lists that were valid during the compilation were used as basis.
- 8.2 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.

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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.

- 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.

## SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Alcohol-like

- Change in condition

Melting point/freezing point:	-89.5 °C
Initial boiling point and boiling range:	82 °C

- Flash point: 13 °C

- Ignition temperature: 425 °C

- Explosive properties: 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

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- VOC - CH 100.00 %
- VOC - USA 785.0 g/l / 6.55 lb/gl
- 9.2 Other information No further relevant information available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:  
No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Inflammable gases/vapours

## SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity Based on available data, the classification criteria are not met.
  - LD/LC50 values that are relevant for classification:
- 
- 67-63-0 propan-2-ol**
- |            |            |                    |
|------------|------------|--------------------|
| Oral       | LD50       | 4,570 mg/kg (rat)  |
| Dermal     | LD50       | 13,400 mg/kg (rab) |
| Inhalative | LC50 (4 h) | 30 mg/l (rat)      |
- Primary irritant effect:
  - Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation  
remarkable irritating  
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)
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - Carcinogenicity 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  
May cause drowsiness or dizziness.
  - 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.

## SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity:
- 
- 67-63-0 propan-2-ol**
- LC50 (96h) 9,640 mg/l (Pimephales promelas)
- LC50(24h) 9,714 mg/l (Daphnia magna)
- 12.2 Persistence and degradability Easily biodegradable
  - 12.3 Bioaccumulative potential No further relevant information available.
  - 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water.
  - 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.

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- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- 13.1 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.

## SECTION 14: Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA
- 1219
- 14.2 UN proper shipping name
- ADR
- 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
- IMDG, IATA
- ISOPROPANOL (ISOPROPYL ALCOHOL)
- 14.3 Transport hazard class(es)
- ADR



- Class
- 3 (F1) Flammable liquids
- Label
- 3

- IMDG, IATA



- Class
- 3 Flammable liquids
- Label
- 3
- 14.4 Packing group
- ADR, IMDG, IATA
- II
- 14.5 Environmental hazards:
- Marine pollutant:
- No
- 14.6 Special precautions for user
- Warning: Flammable liquids
- Kemler Number:
- 33
- EMS Number:
- F-E,S-D
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable.
- Transport/Additional information:

- ADR
- Limited quantities (LQ)
- LQ4
- Transport category
- 2
- Tunnel restriction code
- D/E

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· UN "Model Regulation":

UN1219, ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II (Contd. of page 6)

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations
- Technical instructions (air):
- Class Share in %
- III 100.0
- Water hazard class: Water hazard class 1 : slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 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:
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised 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
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- \* Data compared to the previous version altered.