



**SAFETY DATA SHEET**  
**Jangro - GLASS & MIRROR CLEANER**

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

**1.1. Product identifier**

**Product name** Jangro - GLASS & MIRROR CLEANER  
**Product number** A096 JA  
**Internal identification** BA030-5 & BA030-75

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

**Identified uses** Neutral, cleaner for Glass, Mirrors and Stainless Steel.

**1.3. Details of the supplier of the safety data sheet**

**Supplier** Jangro Limited  
Jangro House  
Worsley Road  
Farnworth  
Bolton. UK  
BL4 9LU  
Tel: 0845 458 5223  
Fax: 01204 579 499  
centraloffice@jangrohq.net

**1.4. Emergency telephone number**

**Emergency telephone** 01772 318 818 - 8.30am to 4.45pm - Mon to Fri

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification**

**Physical hazards**  
Flam. Liq. 3 - H226

**Health hazards**  
Eye Irrit. 2 - H319

**Environmental hazards**  
Not Classified

**Classification (67/548/EEC or 1999/45/EC)**  
R10.

**2.2. Label elements**

**Pictogram**



**Signal word** Warning

**Hazard statements**  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

## Jangro - GLASS & MIRROR CLEANER

### Precautionary statements

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local regulations.
- P280 Wear eye protection.

### Contains

PROPAN-2-OL

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PROPAN-2-OL</b>	<b>10-15%</b>
CAS number: 67-63-0    EC number: 200-661-7    REACH registration number: 01-2119457558-25-xxxx	
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R36 R67
<b>2-BUTOXYETHANOL</b>	<b>1-3%</b>
CAS number: 111-76-2    EC number: 203-905-0	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R20/21/22 Xi;R36/38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

#### Ingestion

Do not induce vomiting. Give plenty of water to drink. Get medical attention if any discomfort continues.

#### Skin contact

Wash with plenty of water.

#### Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

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### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### Inhalation

No specific symptoms known.

### Ingestion

No specific symptoms known. But - May cause discomfort if swallowed.

### Skin contact

No specific symptoms known. But prolonged or excessively repeated skin contact could lead to removal of natural oils from skin.

### Eye contact

May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguish with the following media: Extinguish with foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards

Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. May explode when heated or when exposed to flames or sparks.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Keep containers cool by spraying with water to reduce explosion risks. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with eyes.

### 6.2. Environmental precautions

#### Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Eliminate all sources of ignition.

## Jangro - GLASS & MIRROR CLEANER

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage precautions

Keep away from heat, sparks and open flame.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### Usage description

See Product Information Sheet & Label for detailed use of this product.

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## **SECTION 8: Exposure Controls/personal protection**

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### 8.1. Control parameters

#### Occupational exposure limits

##### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### 2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### Hand protection

No specific hand protection noted, but protection for the skin is advisable to prevent removal of natural oils from skin.

#### Other skin and body protection

None required.

#### Respiratory protection

Respiratory protection not required.

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## **SECTION 9: Physical and Chemical Properties**

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### 9.1. Information on basic physical and chemical properties

#### Appearance

Liquid.

#### Colour

Clear. Blue.

#### Odour

Faint Alcoholic.

#### pH

pH (concentrated solution): 7.00

## Jangro - GLASS & MIRROR CLEANER

### Melting point

-5°C

### Initial boiling point and range

85°C @ 760 mm Hg

### Flash point

35°C . Measured using test method, PMCC (Pensky-Martens closed cup).

### Relative density

0.980 @ 20°C

### Solubility(ies)

Soluble in water.

## 9.2. Other information

### Other information

None.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### Stability

No particular stability concerns.

### 10.3. Possibility of hazardous reactions

See sections 10.1,10.4 & 10.5

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

#### Materials to avoid

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

#### Other health effects

Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

#### Acute toxicity - oral

##### Notes (oral LD50)

Based on available data the classification criteria are not met.

##### ATE oral (mg/kg)

43,333.766671

#### Acute toxicity - dermal

##### Notes (dermal LD50)

Based on available data the classification criteria are not met.

##### ATE dermal (mg/kg)

### Jangro - GLASS & MIRROR CLEANER

33367.00033667

#### **Acute toxicity - inhalation**

##### **Notes (inhalation LC50)**

Based on available data the classification criteria are not met.

##### **ATE inhalation (vapours mg/l)**

336.67003337

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#### **SECTION 12: Ecological Information**

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##### **Ecotoxicity**

Not regarded as dangerous for the environment.

##### **12.1. Toxicity**

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

##### **12.2. Persistence and degradability**

###### **Persistence and degradability**

This product, at use dilutions, is readily broken down in biological effluent treatment plants.

##### **12.3. Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

##### **12.4. Mobility in soil**

###### **Mobility**

Not known.

##### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

##### **12.6. Other adverse effects**

Not known.

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#### **SECTION 13: Disposal considerations**

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##### **13.1. Waste treatment methods**

###### **Disposal methods**

Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal by approved waste contractor. Consign empty container to normal waste.

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#### **SECTION 14: Transport information**

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##### **Road transport notes**

Please note : Product in pack size of 5 Litres or less is classed as a "Limited Quantity" for Transport and so will have the white with black points Transport hazard diamond. Pack size greater than 5 litres will have the red Flammable Liquid UN1987 Transport hazard diamond.

##### **14.1. UN number**

UN No. (ADR/RID) 1987

UN No. (IMDG) 1987

UN No. (ICAO) 1987

##### **14.2. UN proper shipping name**

Proper shipping name (ADR/RID) ALCOHOLS, N.O.S. (isopropanol)

Proper shipping name (IMDG) ALCOHOLS, N.O.S. (isopropanol)

Proper shipping name (ICAO) ALCOHOLS, N.O.S. (isopropanol)

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Proper shipping name (ADN) ALCOHOLS, N.O.S. (isopropanol)

#### 14.3. Transport hazard class(es)

ADR/RID class                    Class 3: Flammable liquids.  
 ADR/RID label                    3  
 IMDG class                    Class 3: Flammable liquids.  
 ICAO class/division            Class 3: Flammable liquids.  
 ICAO subsidiary risk  
 Transport labels



#### 14.4. Packing group

ADR/RID packing group        III  
 IMDG packing group        III  
 ICAO packing group        III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
 No.

#### 14.6. Special precautions for user

EmS                                F-E, S-D  
 Emergency Action Code  
 Hazard Identification Number  
 (ADR/RID)  
 Tunnel restriction code        (D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant. for a packaged product.

### SECTION 15: Regulatory information

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

##### EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under both CHIP - Directive 67/548/EEC - classification, packaging & labelling of dangerous substances & GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

##### Guidance

Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

### SECTION 16: Other information

#### Key literature references and sources for data

Material Safety Data Sheet, Misc. manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. CHIP Class - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC. ECHA - C&L Inventory database.

#### Revision comments

### Jangro - GLASS & MIRROR CLEANER

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

**Revision date** 06/05/2015

**Revision** Issue 6

**SDS status** The Risk Phrases / Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

**Risk phrases in full**

- R10 Flammable.
- R11 Highly flammable.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and skin.
- R67 Vapours may cause drowsiness and dizziness.

**Hazard statements in full**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.