PRODUCT SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name: Jangro- ALCOHOL GEL HAND RUB
Product No.: A051 JA
Internal Id: BK140-5, BK140-50 & BK140-075

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Alcoholic Hand Rub

1.3 Details of the supplier of the safety data sheet
Supplier: Jangro Limited
James House
Worsley Road
Farnworth
Bolton, UK
BL4 9NL
Tel; 0845 458 5223
Fax; 01204 576 801

1.4 Emergency telephone number
Emergency Contact and Times:
01772 318 818 Between: 8.30am and 4.45pm Mon-Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards: Not classified
Human Health: Not classified
Environment: Not classified

Classification (1999/45/EEC) Xi;R36, F;R11. R67
The Full Text for all R-Phrases and Hazard statements are Displayed in Section 16.

2.2 Label Elements
Label in Accordance With (EC) No. 1272/2008
No pictogram required.

2.3 Other hazards
This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>EC No.</th>
<th>CAS No.</th>
<th>Content</th>
<th>Classification</th>
<th>Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td>200-661-7</td>
<td>67-63-0</td>
<td>60-100%</td>
<td>F;R11 Xi;R36 R67</td>
<td>01-2119457558-25-xxxx</td>
</tr>
</tbody>
</table>

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: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion: DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. Get medical attention.
Skin Contact: Rinse with water.
Eye Contact: Promptly wash eyes with plenty of water while lifting the eyelids. 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

General information: The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation: Vapours may cause drowsiness and dizziness.
Ingestion: May cause discomfort if swallowed.
Skin Contact: No specific symptoms noted. 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.
Treat Symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media
Extinguishing Media: Use: Foam, carbon dioxide or dry powder.

5.2 Special hazards arising from the substance or mixture
Unusual Fire & Explosion Hazards: May explode in fire.
Specific Hazards: When heated and in case of fire, harmful vapours/gases may be formed.

5.3 Advice for fire-fighters
Protective equipment for fire-fighters: Keep containers cool by spraying with water to reduce explosive risks. Self contained breathing apparatus and full protective clothing must be worn in case of a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Do not smoke, use open fire or other sources of ignition. Avoid contact with eyes. Do not breathe vapour.

6.2 Environmental precautions
Spillages or uncontrolled discharges into water courses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up
Small quantities may be flushed to drains with plenty of water. Large spillages pick up with vacuum or absorbent solid, store in closed container for disposal.

6.4 Reference to other sections
For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with eyes. Avoid inhalation of vapours. Eliminate all sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from heat, sparks and open flame.

7.3 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.

SECTION 8: PERSONAL PROTECTION/EXPOSURE CONTROLS

8.1 Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>TWA – 8 Hrs</th>
<th>STEL – 15min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-OL</td>
<td>WEL</td>
<td>400 ppm</td>
<td>999mg/m3</td>
<td>500ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1250mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit for COSHH assessments in the UK

INGREDIENT COMMENTS: STEL = Short-Term Exposure Limit (15 minute) & TWA = Time Weighted Average (8 hours).
**8.2 Exposure controls**

Engineering Measures: All handling to take place in a well ventilated area.
Respiratory Equipment: Respiratory protection not required.
Hand Protection: Hand protection not required.
Eye Protection: None required if care is taken not to splash in eyes when pouring or using.
Other Protection: None required

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

- **Appearance:** Liquid.
- **Odour:** Odour of alcohol
- **Solubility:** Soluble in water
- **Boiling Pt. (°C):** 85-90
- **Flash Pt. (°C):** 19 P/M Pensky-Martens
- **Melting Point:** <10
- **pH-Value, Conc Solution:** 5.5
- **Relative Density:** 0.860 @ 20°C
- **Colour:** Clear Colourless

9.2 Other information

None.

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**SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity
No specific reactivity hazards associated with this product.

10.2 Chemical 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 incompatible groups noted.

10.6 Hazardous decomposition products
No hazardous decomposition products.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Toxicological Information: We have not carried out any animal testing, therefore we have no Toxicological Data specifically for this product. The Toxicological Data, where provided by the raw material manufacturer, can be made available on request.

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

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**SECTION 12: ECOLOGICAL INFORMATION**

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

12.3 Bioaccumulative potential
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 assessments
This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects
Not known
SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number
UN No. (ADR/RID/AND) 1219
UN No. (IMDG) 1219
UN No. (ICAO) 1219

14.2 UN Proper shipping name
Proper shipping name: ISOPROPANOL 70% SOLUTION

14.3 Transport hazard class(es)
ADR/RID/ADN Class: Class 3: Flammable liquids.
IMDG Class: Class 3: Flammable liquids.
ICAO Class/Division: Class 3: Flammable liquids.

Transport Labels:

14.4 Packing group
ADR/RID/ADN Packing group: II
IMDG Packing group: II
ICAO Packing group: II

14.5 Environmental hazards: Environmentally Hazardous Substance/Marine Pollutant: No

14.6 Special precautions for user:
EMS F-E, S-D
Tunnel Restriction code: (D/E)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not relevant for packaged product.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture
UK Regulatory References: Cosmetic Products (safety) regulations 1996(c).
Guidance Notes: Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment: Not applicable this product is a mixture.

SECTION 16: OTHER INFORMATION

Information Sources: Material Safety Data Sheet, misc. manufacturers. CLP Class – Table 3.1 List of harmonised classification and labelling 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.

Revision Comments: New Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). No change in Product Classification – Main change is the move of labelling elements from Section 15 to Section 2 & Section 3 now has a different layout for the ingredients and lists their classification in both CHIP & CLP format.

Revision Date: 01/10/2012
Revision: Issue 5
Safety Data Sheet Status: This 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:
- R11 Highly flammable
- R36 Irritating to eyes
- R67 Vapours may cause drowsiness and dizziness

Hazard Statements in full:
- H319 Causes serious eye irritation
- H225 Highly flammable liquid and vapour
- H336 May cause drowsiness and dizziness
ALCOHOL GEL HAND RUB WITH MOISTURISER

Description
Alcohol based skin disinfectant. Use after routine hand washing and when soap or water is not readily available. Will evaporate from hands and kill bacteria almost immediately without leaving a residue or odour.

Features and Benefits
- Highly effective alcohol based hand rub
- Rapidly evaporates from hands and kills bacteria
- Ideal in food handling and preparation areas as it is unperfumed and will not taint the skin
- Recommended for use between patient contact in non-surgical medical care establishments
- Available in 75ml handy bottle with clip fastening, 500ml pump dispenser bottle or 5 litre bottle for extra economy

How to Use
After washing and drying hands, apply a small amount to palms and spread over hands and lower forearms, paying special attention to cuticles and creases in the skin. Rub in well until skin is dry. As the product will evaporate, it is not necessary to dry hands. Will leave skin feeling refreshed and sanitised. Avoid contact with clothes and fabric.

Typical Product Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour:</td>
<td>Odour of alcohol</td>
</tr>
<tr>
<td>Solubility Description:</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Boiling Pt. (°C):</td>
<td>85-90</td>
</tr>
<tr>
<td>Flash Pt. (°C):</td>
<td>19 P/M Pensky-Martens</td>
</tr>
<tr>
<td>Melting Point: (°C):</td>
<td>&lt;-10</td>
</tr>
<tr>
<td>pH-Value, Conc:</td>
<td>5.5</td>
</tr>
<tr>
<td>Relative Density:</td>
<td>0.0860 @ 20°C</td>
</tr>
</tbody>
</table>

Storage
Store in original sealed container and protect from extremes of temperature

Biodegradability
All surfactants used in Jangro products comply with the current European Regulations concerning Biodegradability and protection of the environment.