1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: PHENYLETHYL ALCOHOL

Other name(s): Phenyl Ethyl Alcohol; Phenyl Ethyl Alcohol 99%; Phenyl Ethyl Alcohol 99% Japanese; Phenyl Ethyl Alcohol FFC 99%; Alcohol Phenyl Ethyl; AAALC57860; AAPHE53230

Recommended Use of the Chemical and Restrictions on Use

Supplier: Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia
ABN: 51 600 546 512
Street Address: 70 Marple Avenue
Villawood NSW 2163
Australia

Telephone Number: +61 2 8717 2929
Facsimile: +61 2 9755 9611
Emergency Telephone: 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the “Other Information” section at the end of this Data Sheet.

2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTITUTE.

Classification of the substance or mixture:
Acute Oral Toxicity - Category 4
Eye Irritation - Category 2A

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:
Acute Dermal Toxicity - Category 5

SIGNAL WORD: WARNING

Hazard Statement(s):
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary Statement(s):
Prevention:
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
Response:
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
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.

Storage:
No storage statements.

Disposal:
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Poisons Schedule (SUSMP): None allocated.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Proportion</th>
<th>Hazard Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenyl ethanol</td>
<td>60-12-8</td>
<td>&gt;99%</td>
<td>H302, H313, H319</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:
Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact:
If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with soap and water. If irritation occurs seek medical advice.

Eye Contact:
If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:
Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical assistance.

Indication of immediate medical attention and special treatment needed:
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Normal foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the substance or mixture:
Combustible liquid. On burning will emit toxic fumes, including those of oxides of carbon.
Special protective equipment and precautions for fire-fighters:
Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:
Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:
Slippery when split. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

Precautions for safe handling:
Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Conditions for safe storage, including any incompatibilities:
Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No value assigned for this specific material by Safe Work Australia.

Appropriate engineering controls:
Use in well ventilated areas. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour/particulate respirator. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.
Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid  
Colour: Colourless  
Odour: Mild, Honey - Rose  
Odour Threshold: Not available  
Solubility: Partially soluble in water.  
Specific Gravity: 1.005 - 1.030 @ 25°C  
Relative Vapour Density (air=1): Not available  
Vapour Pressure (20 °C): Not available  
Flash Point (°C): 102  
Flammability Limits (%): Not available  
Autoignition Temperature (°C): 410  
Solubility in water (g/L): 20 g/L @20°C  
Melting Point/Range (°C): -28.5 to -27  
Boiling Point/Range (°C): 219 - 221  
Decomposition Point (°C): Not available  
pH: Not available  
Viscosity: Not available  
Partition Coefficient: Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available.  
Chemical stability: Stable under normal conditions of use.  
Possibility of hazardous reactions: Hazardous polymerisation will not occur.  
Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.  
Incompatible materials: Incompatible with oxidising agents.  
Hazardous decomposition products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain.
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**Eye contact:** An eye irritant.

**Skin contact:** Contact with skin will result in mild irritation.

**Inhalation:** Material may be irritant to the mucous membranes of the respiratory tract (airways).

#### Acute toxicity:
- **Oral LD50 (rat):** 1,609 mg/kg (2)
- **Dermal LD50 (rabbit):** 2,535 mg/kg (2)
- **Inhalation LC50 (rat):** >4,630 mg/m$^3$/4H (1)

**Skin corrosion/irritation:** Mild irritant (guinea pig) (3)

**Serious eye damage/irritation:** Severe irritant (rabbit) (1)

**Respiratory or skin sensitisation:** No information available.

**Chronic effects:** No information available for the product.

**Mutagenicity:** No information available.

**Carcinogenicity:** No information available.

**Reproductive toxicity:** No information available.

**Specific Target Organ Toxicity (STOT) - single exposure:** No information available.

**Specific Target Organ Toxicity (STOT) - repeated exposure:** No information available.

**Aspiration hazard:** No information available.

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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Avoid contaminating waterways.

**Persistenc/degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility in soil:** No information available.

**Aquatic toxicity:**
- **72hr EC50 (algae, Scenedesmus subspicatus):** 490 mg/L (2)
- **48hr EC50 (Daphnia magna):** 287 mg/L (2)
- **96hr LC50 (golden orfe):** 215 mg/L (2)

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### 13. DISPOSAL CONSIDERATIONS

**Disposal methods:**
Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations. Normally suitable for incineration by an approved agent.

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### 14. TRANSPORT INFORMATION

**Product Name:** PHENYLETHYL ALCOHOL

**Substance No:** 000000030722

**Issued:** 26/02/2015

**Version:** 4
Road and Rail Transport
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification:
This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:
Acute Oral Toxicity - Category 4
Eye Irritation - Category 2A

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:
Acute Dermal Toxicity - Category 5

Hazard Statement(s):
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Poisons Schedule (SUSMP):
None allocated.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(2) Screening-Level Hazard Characterization, Phenylethyl alcohol, U.S. Environmental Protection Agency (EPA), March 2010.
(3) Supplier Safety Data Sheet; 07/ 2014.

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.

Reason(s) for Issue:
Revised Primary SDS
Change in Hazardous Substance Classification
Change in Physical Properties
Update in Toxicological Information
This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.