# CLEAR GUM

## Safety Data Sheet

### 1. Identification

<table>
<thead>
<tr>
<th>GHS Product Identifier</th>
<th>CLEAR GUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>CSA Trading Pty Ltd</td>
</tr>
<tr>
<td>Address</td>
<td>21-23 Joseph Street</td>
</tr>
<tr>
<td></td>
<td>Blackburn North</td>
</tr>
<tr>
<td></td>
<td>Victoria, 3130</td>
</tr>
<tr>
<td></td>
<td>Australia</td>
</tr>
<tr>
<td>Telephone/Fax Number</td>
<td>Phone: +61 3 9895 4333</td>
</tr>
<tr>
<td></td>
<td>Fax: +61 3 9899 4519</td>
</tr>
<tr>
<td>Emergency Phone Number</td>
<td>24 hours</td>
</tr>
<tr>
<td>Contact Poison Information Centre:</td>
<td>13 11 26 (Australia) 0800 764 766 (New Zealand)</td>
</tr>
<tr>
<td>Recommended use of the chemical and restrictions on use</td>
<td>Used for bonding paper.</td>
</tr>
</tbody>
</table>

### Other Information

This SDS summarises to the best of our knowledge the health and safety hazard information of the product and how to safely handle and use the product in the workplace.

### 2. Hazards Identification

#### Hazard Classification according to GHS

| Hazard Classification according to GHS | Not applicable |

#### Label Elements

| Hazard Pictograms | Not applicable |
| Signal Word       | Not applicable |

#### Hazard Statements

| Hazard Statements | Not applicable |

#### Precautionary Statements

| Prevention | Not applicable |
| Response   | Not applicable |
| Storage    | Not applicable |
| Disposal   | Not applicable |
| Hazard Description | Liquid, toxic smoke/fumes in a fire. |

#### Physical and Chemical hazards

**Health Hazards**

**Inhaled**

Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.

**Ingestion**

Accidental ingestion of the product may be harmful to the health of the individual.

**Skin Contact**

Entry into the blood-stream through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.

**Eye**

This product may cause temporary discomfort following direct contact with the eye.

**Environmental Hazards**

Please refer to Section 12 of SDS
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Cas No.</th>
<th>EC No.</th>
<th>Concentration (weight percent, %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>86.985</td>
</tr>
<tr>
<td>Polyvinyl Alcohol</td>
<td>9002-89-5</td>
<td>209-183-3</td>
<td>13</td>
</tr>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>220-239-6</td>
<td>0.015</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

**General Advice**
Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

**Skin contact**
Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

**Ingestion**
Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.

**Inhalation**
Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

**Protecting of first aiders**
Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

**Most important symptoms and effects, both acute and delayed**
1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

**Indication of any immediate medical attention and special treatment needed**
1 Treat symptomatically.
2 Symptoms may be delayed.

5. Fire-Fighting Measures

**Extinguishing Media**

**Suitable extinguishing media**
Use extinguishing media suitable for surrounding area.

**Unsuitable extinguishing media**
There is no restriction on the type of extinguisher which may be used.

**Specific hazards arising from the substance or mixture**
1 Development of hazardous combustion gases or vapour possible in the event of fire.
2 Not combustible, not considered a significant fire risk, however containers may burn.

**Advice for firefighters**
1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
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1  Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

2  Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

3  Avoid breathing vapours, mist, gas or dust.

Environmental precautions
1  Prevent further leakage or spillage if safe to do so.

2  Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
1  Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

2  Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

3  Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

Precautions for handling
1  Handling is performed in a well-ventilated place.

2  Wear suitable protective equipment.

3  Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage
1  Keep containers tightly closed.

2  Keep containers in a dry, cool and well-ventilated place.

3  Keep away from heat/sparks/open flames/ hot surfaces.

4  Store away from incompatible materials and foodstuff containers.

5  Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls / Personal Protection

Occupational exposure limit values  No information available

Biological limit values  No information available

Monitoring methods
1  EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

2  GBZ/T 160.1--GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Engineering controls
1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the workstation location.
3. Use explosion-proof electrical/ventilating/lighting/equipment.
4. Set up emergency exit and necessary risk-elimination area.

**Personal protection equipment**

- **General requirement**
- **Eye protection**
  - Tightly fitting safety goggles approved by EN 166 (EU) or NIOSH (US).
- **Hand protection**
  - Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
- **Respiratory protection**
  - If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
- **Skin and body protection**
  - Wear fire/flame resistant/retardant clothing and antistatic boots.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Transparent viscous liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>No special odour</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/freezing point(℃)</td>
<td>&lt;20</td>
</tr>
<tr>
<td>Initial boiling point and boiling range(℃)</td>
<td>&gt;35</td>
</tr>
<tr>
<td>Flash point(Closed cup,℃)</td>
<td>The flash point above 93℃</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Upper/lower explosive limits [% (v/v)]</td>
<td>Upper limit: No information available</td>
</tr>
<tr>
<td></td>
<td>Lower limit: No information available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.73Pa (20℃, 2-Methyl-4-Isothiazolin-3-one)</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No information available</td>
</tr>
<tr>
<td>(Air = 1)</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>1.19~1.31 (Polyvinyl alcohol)</td>
</tr>
<tr>
<td>(Water=1)</td>
<td></td>
</tr>
<tr>
<td>Solubility (mg/L)</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>n-octanol/water partition coefficient</td>
<td>-0.486 2-Methyl-4-Isothiazolin-3-one</td>
</tr>
<tr>
<td>Auto-ignition temperature(℃)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature(℃)</td>
<td>155 2-Methyl-4-Isothiazolin-3-one</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity
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Reactivity
Contact with incompatible substances can cause decomposition or other chemical reactions.

Chemical stability
Stable under proper operation and storage conditions.

Possibility of hazardous reactions
In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.

Conditions to Avoid
Incompatible materials, heat, flame and spark.

Incompatible Materials
Alkali, sodium, calcium, and other active metal, halogen, metal oxide, non-metal oxide, acyl halide and metal phosphide.

Hazardous Decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

<table>
<thead>
<tr>
<th>Acute Toxicity Component</th>
<th>Cas No.</th>
<th>LD₅₀ (oral)</th>
<th>LD₅₀ (dermal)</th>
<th>LC₅₀ (inhalation,4h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyvinyl alcohol</td>
<td>9002-89-5</td>
<td>&gt;20000mg/kg(Rat)</td>
<td>&gt;7940mg/kg(Rabbit)</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Carcinogenicity

<table>
<thead>
<tr>
<th>ID</th>
<th>Cas No.</th>
<th>Component</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7732-18-5</td>
<td>Water</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>2</td>
<td>9002-89-5</td>
<td>Polyvinyl alcohol</td>
<td>Category 3</td>
<td>Not listed</td>
</tr>
<tr>
<td>3</td>
<td>2682-20-4</td>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Others (Starch Glue)

Skin corrosion/irritation
Serious eye damage/irritation
Skin sensitization
Respiratory sensitization
Reproductive toxicity
STOT – single exposure
STOT – repeated exposure
Aspiration hazard
Germ cell mutagenicity
Reproductive toxicity (additional)

Based on available data, the classification criteria are not met

12. Ecological Information

Acute aquatic toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Cas No.</th>
<th>Fish</th>
<th>Crustaceans</th>
<th>Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>LC₅₀ : 0.19mg/L (96h)(Fish)</td>
<td>EC₅₀ : 1.07mg/L (48h)(Crustaceans)</td>
<td>ErC₅₀ : 0.06mg/L (96h)(Algae)</td>
</tr>
</tbody>
</table>

Chronic aquatic toxicity
No information available.

Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>Cas No.</th>
<th>Persistence (water/soil)</th>
<th>Persistence (air)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Component</th>
<th>Cas No.</th>
<th>Bioaccumulative potential</th>
<th>comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>Low</td>
<td>Log KOW=-0.8767</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Low</td>
<td>Log KOW=-1.38</td>
</tr>
</tbody>
</table>

**Mobility in soil**

<table>
<thead>
<tr>
<th>Component</th>
<th>Cas No.</th>
<th>Mobility in soil</th>
<th>Soil Organic Carbon-Water Partitioning Coefficient (Koc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>Low</td>
<td>27.88</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Low</td>
<td>14.3</td>
</tr>
</tbody>
</table>

**Results of PBT and vPvB assessment**

<table>
<thead>
<tr>
<th>Component</th>
<th>Cas No.</th>
<th>Results of PBT and vPvB assessment (according to (EC) No 1907/2006)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Not PBT/vPvB</td>
</tr>
<tr>
<td>Polyvinyl alcohol</td>
<td>9002-89-5</td>
<td>Not PBT/vPvB</td>
</tr>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>Not PBT/vPvB</td>
</tr>
</tbody>
</table>

**13. Disposal Considerations**

**Waste chemicals**
Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated packaging**
Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

**Disposal Recommendations**
Refer to section 13.1 and 13.2.

**14. Transport Information**

**Label and Mark**

**Transporting Label**
Not applicable

**IMDG-CODE**
NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**ICAO-IATA-DG**
NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**UN-ADR**
NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**15. Regulatory Information**

**International chemical inventory**

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>TSCA</th>
<th>DSL</th>
<th>IECSC</th>
<th>NZIoC</th>
<th>PICCS</th>
<th>KECI</th>
<th>AICS</th>
<th>ENCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Polyvinyl alcohol</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>2-Methyl-4-Isothiazolin-3-one</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>X</td>
</tr>
</tbody>
</table>

【EINECS】European Inventory of Existing Commercial Chemical Substances
【TSCA】United States Toxic Substances Control Act Inventory

**Product Name:** Clear Gum
**Issued 25/11/2016 Version 1**
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Note
“Y” Indicates that the substance included in the regulations
“N” That no data or included in the regulations

16. Other Information

Date of preparation or last revision of SDS 25/11/16

Contact Person/Point
CSA Trading Pty Ltd
Phone: +61 3 9895 4333 (International)
Fax: +61 3 9899 4519 (International)

Poisons Information Centre
13 11 26 (Australia)
0800 764 766 (New Zealand)

Reference

Abbreviations and acronyms
CAS – Chemical Abstracts Service
CMR - Carcinogens, mutagens or substances toxic to reproduction
PC-STEL - Short term exposure limit
PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level
IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment
PNEC - Predicted No Effect Concentration
LC50 - Lethal Concentration 50%
LD50 - Lethal Dose 50%
NOEC - No Observed Effect Concentration
EC50 - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic
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POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)
vPvB - very Persistent, very Bioaccumulative
IMDG - International Maritime Dangerous Goods
ICAO/IATA - International Civil Aviation Organization/International Air Transportation Association
UN - The United Nations
ACGIH - American Conference of Governmental Industrial Hygienists
NFPA - National Fire Protection Association
OECD - Organization for Economic Co-operation and Development

The information and recommendations set down here in this document are presented in good faith and to the best of CSA Trading’s knowledge. CSA Trading Pty Ltd cannot predict or control all conditions of use or handling of this product and each user must review this document in the context of the conditions under which they intend to handle and use this product. It is the responsibility of the user to ensure a proper assessment has been carried out. No representations or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made hereunder with respect to the product to which this information refers.