

# SAFETY DATA SHEET



Revision date: 05-Dec-2023

Revision Number 5

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product identifier

**Product Name** CLOVE ESSENCE E29098 (FACLO85200)

**Product Code(s)** 000000037508

### Other means of identification

**Pure substance/mixture** Mixture

### Recommended use of the chemical and restrictions on use

**Recommended use** Flavour.

**Uses advised against** No information available

### Supplier

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

Telephone Number: +61 2 8717 2929

Facsimile: +61 2 9755 9611

### Emergency telephone number

Emergency telephone number **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

### GHS Classification

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

|  |                     |
|--|---------------------|
| <b>Serious eye damage/eye irritation</b> | Category 2 - (H319) |
| <b>Skin sensitization</b>                | Category 1 - (H317) |

### **SIGNAL WORD**

Warning

**Label elements**

Exclamation mark

**Hazard statements**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

**Precautionary Statements - Prevention**

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

Contaminated work clothing should not be allowed out of the workplace

Wash hands thoroughly after handling

Wear protective gloves/eye protection/face protection

Avoid release to the environment

**Precautionary Statements - Response**

Specific treatment (see First aid on this SDS)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Other hazards which do not result in classification**

Causes mild skin irritation

Harmful to aquatic life

**Poisons Schedule (SUSMP)**

None allocated

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Contains propylene glycol.

| Chemical name                              | CAS No.   | Weight-% |
|--|-----------|----------|
| Clove, leaf oil                            | 8000-34-8 | 10-<30   |
| Ingredients determined not to be hazardous | -         | to 100   |

**4. FIRST AID MEASURES****Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance. For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area. Get medical attention if irritation develops and persists.

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|   |  |
|---|--|
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention if symptoms occur.   |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes, and clothing. Wear personal protective clothing (see section 8).  |

**Most important symptoms and effects, both acute and delayed**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Irritation. May cause redness and tearing of the eyes. Redness. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. |
|-----------------|---|

**Indication of any immediate medical attention and special treatment needed**

|                           |   |
|---------------------------|---|
| <b>Note to physicians</b> | May cause sensitization by skin contact. Treat symptomatically. |
|---------------------------|---|

**5. FIRE FIGHTING MEASURES****Suitable Extinguishing Media**

|                                     |   |
|-------------------------------------|---|
| <b>Suitable Extinguishing Media</b> | Foam. Dry chemical or CO <sub>2</sub> . |
|-------------------------------------|---|

|                                       |                        |
|---------------------------------------|------------------------|
| <b>Unsuitable extinguishing media</b> | High volume water jet. |
|---------------------------------------|------------------------|

**Specific hazards arising from the chemical**

|   |  |
|---|--|
| <b>Specific hazards arising from the chemical</b> | Combustible liquid. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by skin contact. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
|---|--|

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Hazardous combustion products</b> | Oxides of carbon. |
|--------------------------------------|-------------------|

**Special protective actions for fire-fighters**

|   |  |
|---|--|
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|---|--|

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Wash thoroughly after handling. |
|-----------------------------|---|

|                          |  |
|--------------------------|--|
| <b>Other information</b> | Ventilate the area. Refer to protective measures listed in Sections 7 and 8. |
|--------------------------|--|

|                                 |   |
|---------------------------------|---|
| <b>For emergency responders</b> | Shut off ignition sources. Clear area of all unprotected personnel. Use personal protection recommended in Section 8. |
|---------------------------------|---|

**Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. |
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See Section 12 for additional Ecological Information.

#### **Methods and material for containment and cleaning up**

|                                |  |
|--------------------------------|--|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. Dike far ahead of spill to collect runoff water.            |
| <b>Methods for cleaning up</b> | Slippery when spilt. Avoid accidents, clean up immediately. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. |

## **7. HANDLING AND STORAGE**

#### **Precautions for safe handling**

|                                       |   |
|---------------------------------------|---|
| <b>Advice on safe handling</b>        | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
| <b>General hygiene considerations</b> | Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.  |

#### **Conditions for safe storage, including any incompatibilities**

|                                 |   |
|---------------------------------|---|
| <b>Storage Conditions</b>       | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Store away from sources of heat or ignition. Store locked up. Keep out of the reach of children. Keep container closed when not in use.<br><br>Classified as a C2 (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. |
| <b>Incompatible materials</b>   | Oxidizing agents.   |
| <b>Poisons Schedule (SUSMP)</b> | None allocated  |

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control parameters**

|                        |  |
|------------------------|--|
| <b>Exposure Limits</b> | No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s): |
|------------------------|--|

Propane-1,2-diol (propylene glycol) (total: vapour & particulates): 8hr TWA = 474 mg/m<sup>3</sup> (150 ppm); (particulates only): 8hr TWA = 10 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric

contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Appropriate engineering controls

#### **Engineering controls**

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### Individual protection measures, such as personal protective equipment

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.



#### **Eye/face protection**

Goggles.

#### **Skin and body protection**

Wear suitable protective clothing. Overalls. Protective shoes or boots.

#### **Hand protection**

Impervious gloves.

#### **Respiratory protection**

If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

#### **Environmental exposure controls**

No information available.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

|                       |                           |
|-----------------------|---------------------------|
| <b>Physical state</b> | Liquid                    |
| <b>Appearance</b>     | No information available  |
| <b>Color</b>          | Colourless to Pale Yellow |
| <b>Odor</b>           | Clove                     |
| <b>Odor threshold</b> | No information available  |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| <b>pH</b>                              | No data available | None known              |
| <b>pH (as aqueous solution)</b>        | No data available | None known              |
| <b>Melting point / freezing point</b>  | No data available | None known              |
| <b>Boiling point / boiling range</b>   | No data available | None known              |
| <b>Flash point</b>                     | 112 °C            | CC (closed cup)         |
| <b>Evaporation rate</b>                | No data available | None known              |
| <b>Flammability (solid, gas)</b>       | No data available | None known              |
| <b>Flammability Limit in Air</b>       |                   | None known              |
| <b>Upper flammability or explosive</b> | No data available |                         |

|   |  |                  |
|---|--|------------------|
| <b>limits</b>                                 |  |                  |
| <b>Lower flammability or explosive limits</b> | No data available  |                  |
| <b>Vapor pressure</b>                         | No data available  | None known       |
| <b>Vapor density</b>                          | No data available  | None known       |
| <b>Relative density</b>                       | 1  | @ 20 °C, approx. |
| <b>Water solubility</b>                       | No data available  | None known       |
| <b>Solubility(ies)</b>                        | Immiscible in water and Mineral oil.<br>Miscible in alcohol. |                  |
| <b>Partition coefficient</b>                  | No data available  | None known       |
| <b>Autoignition temperature</b>               | No data available  | None known       |
| <b>Decomposition temperature</b>              | No data available  | None known       |
| <b>Kinematic viscosity</b>                    | No data available  | None known       |
| <b>Dynamic viscosity</b>                      | No data available  | None known       |

Other information**10. STABILITY AND REACTIVITY**Reactivity

**Reactivity** No information available.

Chemical stability

**Stability** Stable under normal conditions.

Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Direct sunlight.

Incompatible materials

**Incompatible materials** Oxidizing agents.

Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon.

**11. TOXICOLOGICAL INFORMATION**Acute toxicityInformation on likely routes of exposure

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

**Inhalation** May cause irritation of respiratory tract.

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|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Causes serious eye irritation.  |
| <b>Skin contact</b> | May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes mild skin irritation. |
| <b>Ingestion</b>    | May cause gastrointestinal discomfort if consumed in large amounts.   |
| <b>Symptoms</b>     | Irritation. May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation. Itching. Rashes. Hives. Redness.                     |

**Numerical measures of toxicity - Product Information**

No information available

*See section 16 for terms and abbreviations***Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Causes mild skin irritation. Classification based on data available for ingredients.             |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation. Classification based on data available for ingredients.           |
| <b>Respiratory or skin sensitization</b> | May cause sensitization by skin contact. Classification based on data available for ingredients. |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | No information available.  |
| <b>Reproductive toxicity</b>             | No information available.  |
| <b>STOT - single exposure</b>            | No information available.  |
| <b>STOT - repeated exposure</b>          | No information available.  |
| <b>Aspiration hazard</b>                 | No information available.  |

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Ecotoxicity** Keep out of waterways. Harmful to aquatic life.**Persistence and degradability****Persistence and degradability** No information available.**Bioaccumulative potential****Bioaccumulation** No information available.**Mobility**

**Mobility in soil** No information available.

**Other adverse effects**

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

### 14. TRANSPORT INFORMATION

**ADG**

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.

**IATA**

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.

**IMDG**

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

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Australia**

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

**Poisons Schedule (SUSMP)** None allocated

**International Inventories**

**AIC**

All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals or are regulated through the Food Standards Australia New Zealand (FSANZ).

**Legend:**

**AIC- Australian Inventory of Industrial Chemicals**

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable



The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## 16. OTHER INFORMATION

**Reason(s) For Issue:** 5 Yearly Revised Primary SDS  
Change in Hazardous Chemical Classification

**Issuing Date:** 05-Dec-2023

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

**Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |
| C       | Carcinogen                  |      |                                  |

**Key literature references and sources for data used to compile the SDS**

EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Disclaimer**

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 and Australian Botanical Products.**

**End of Safety Data Sheet**