

MATERIAL SAFETY DATA SHEET**1. PRODUCT AND COMPANY IDENTIFICATION:****PRODUCT CODE:** EO100500**PRODUCT NAME:** CORIANDER ESSENTIAL OIL**SUPPLIER:** Pure Ingredients Ltd626A Rosebank Road, Avondale Auckland 1026
New Zealand

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2. HAZARD IDENTIFICATION:

Emergency Overview

OSHA Hazards

Combustible Liquid, Irritant

GHS Classification

Flammable liquid (Category 4)

Skin corrosion/irritation (Category 2)

Sensitization, skin (Category 1)

Aspiration hazard (Category 1)

Chronic Aquatic Toxicity (Category 2)

GHS Label elements, including precautionary statements**Pictogram**Signal word **Warning****Hazard statement(s)**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash.....thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P301+310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see.....on this label).

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice/attention.
 P333+313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 Take off contaminated clothing before reuse.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.
 P405 Store locked up.
 P501 Dispose of contents/container to....

HMIS Classification

Health hazard 2
 Flammability 2
 Physical hazards 0

NFPA Rating

Health hazard 2
 Fire 2
 Reactivity Hazard 0

Potential Health Effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.
 Skin : May be harmful if absorbed through skin. Causes skin irritation
 Eyes : Causes eye irritation
 Ingestion: May be harmful if swallowed

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Molecular Formula N/A
 Molecular Weight N/A
 CAS-No 8008- 52-4
 EC-No 283-880-0

FIRST-AID GUIDE:

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Important delayed symptoms Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

4. FIRE-FIGHTING GUIDE:

Suitable extinguishing media	Water spray, fog, CO ₂ , dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.
Specific methods	Use water spray to cool unopened containers.
General fire hazards	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

5. ACCIDENTAL RELEASE GUIDE:

Personal precautions Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13)

6. HANDLING AND STORAGE:

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge

Conditions for safe storage

Store in cool place, Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage

7. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection



Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection



Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Eye protection



Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Skin and body protection



Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

8. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

mobile liquid

Form	liquid
Colour	colorless to pale yellow liquid
Safety data	
pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	>100°C - closed cup
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	0.868 g/ml @25 °C(lit.)
Water solubility	no data available
Partition coefficient	no data available
n-octanol/water Relative vapour density	no data available
Odour	characteristic smell of coriander
Odour Threshold	no data available
Evaporation rate	no data available

9. STABILITY AND REACTIVITY:

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

No data available

Conditions to avoid

Heat, flames and sparks

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known

Other decomposition products - no data available

10. TOXICOLOGICAL INFORMATION:

Acute toxicity

Oral LD50 - Rat - 4130 mg/kg

Inhalation LC50 No data available

Dermal LD50 – No data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity IARC

No components of this product present at levels greater than or equal to 0.1% is identified as probable, Possible or confirmed human carcinogen by IARC

ACGIH

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP

No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

OSHA

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation

Signs and Symptoms of Exposure

Dermatitis, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effects

No data available

12. ECOLOGICAL INFORMATION:

Toxicity

No data available

Persistence and degradability

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13.DISPOSAL RECOMMENDATIONS:

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Not established.
Waste from residues	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14.TRANSPORTATION INFORMATION:

ADR

UN number: 1993 Class: 3 Packing group: III

IMDG

UN number: 1993 Class:3 Packing group: III EMS-No: F-A, S-F

IATA

UN number: 1993 Class: 3 Packing group: III

15.REGULATORY INFORMATION:

OSHA Hazards

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Superfund Amendments and Reauthorization Act of 1986 (SARA)

This substance contains no materials subject to the reporting requirements of Superfund Amendments and Reauthorization Act of 1986 Title III Section 313

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

CAS-No : 8008-52-4

EINCES No : 283-880-0

Custom Tariff Code : 3301 29 22

FEMA No : 2334

FDA No : 182.20

HSNO Approval Number : HSR002574

16.OTHER INFORMATION:

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

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