



1. Identification of the substance/mixture and of the Company/undertaking:

1.1 Product identifier:

Product Name: Pola Paint

1.2 Relevant identified use:

Relevant use:

Dental use: To remove discoloration of teeth, under the supervision of a dentist.

1.3 Details of the supplier of the Safety Data Sheet:

Manufacturer / Supplier

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2. Hazard Identification

Classification of the substance/mixture:

Product contains ethanol and should not be stored anywhere near naked flame.

Signal word: **DANGER**



Flame

GHS Classification: Flam. Liq. 2



2. Hazard Identification

Hazard phrases:
H225 Highly flammable liquid and vapour

Precautionary phrases:

Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response:
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.
P101 If medical advice is needed, have product packaging and leaflet at hand.
P102 Keep out of reach of children
P103 Read instructions before use.

Storage:
P403+P235 Store in a well-ventilated place. Keep cool.

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

3. Composition / Information on ingredients

| <u>Composition:</u> | <u>CAS No.</u> | <u>Wt. %</u> | <u>EC Number:</u> | <u>Index Number:</u> |
|---|----------------|--------------|-------------------|----------------------|
| Urea peroxide (carbamide peroxide) (equivalent approximately 3% hydrogen peroxide) | 124-43-6 | 8.0 | 231-765-0 | 008-003-00-9 |
| Ethanol | 64-17-5 | 48.0 | 200-578-6 | 603-002-00-5 |

4. First Aid Measures

Eye (contact): Flush opened eye with running water for 15 minutes. Seek medical attention if irritation present.

Skin (contact): Remove contaminated clothing. Wash skin with plenty of water.

Ingestion: No side effect expected for small quantity.

Inhalation: Side effects not expected.

Most important effects, acute and delayed:

The most important known symptoms and effects are described in section 2 and/or in section 11.

Indication of any immediate medical attention and special treatment needed: No data available.



5. Fire Fighting Measures

| | |
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| Suitable extinguishing media: | Water spray, dry chemical, carbon dioxide, protein type air foams. |
| Unusual Fire and Explosion Hazards: | Heat may generate irritating vapours, e.g. CO, CO ₂ . acrylate monomers and hydrocarbons. |
| Unsuitable extinguishing media: | Do not use extinguishing media for organic compounds. |
| Specific hazards arising from the mixture: | The product itself does not burn. In the event of fire, product may decompose and release oxygen, irritating vapours, e.g. CO, CO ₂ . acrylate monomers and hydrocarbons.. Incompatible materials: Avoid contact with metals, metallic salts, alkalis, flammable substances, and organic solvents. |
| Special protective equipment: | Wear approved respirator and protective gear. Use spray to cool containers. |
| Advice for firefighters: | Wear self-contained breathing apparatus for fire fighting if necessary. |

6. Accidental Release Measures

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| Personal precautions: | Do not get into eyes, on skin or clothing. Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Ensure an eye bath and safety shower are available and ready for use. Wash thoroughly after handling. For personal protection see section 8. |
| Environmental precautions: | Prevent any spillage from entering waterways, drains or sewage system. |
| Methods for cleaning up and containment of spill: | Mop up using absorbent paper or towel. Wash the spillage area clean with water. Dispose of in accordance with local regulations. |
| Removal of ignition sources, provision of sufficient ventilation, control of dust: | |
| - Remove sources of ignition. | |

7. Handling and storage

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| <u>Precautions for safe handling:</u> | Replace caps immediately after use. |
| <u>Conditions for safe storage, including any biocompatibilities:</u> | Store in a cool, dry place at temperatures between 4° and 20°C (39° - 68°F). |
| Specific end use: | Apart from the use mentioned in section 1.2, there are no other uses for the product. |



8. Exposure controls / personal protection

Control parameters:

Occupational exposure limits (NOHSC, NIOSH, OSHA,):

| Standard name | Cas No: | TWA (ppm) | TWA (mg/m ³) | STEL (ppm) | STEL (mg/m ³) |
|-------------------|-----------|-----------|--------------------------|------------|---------------------------|
| Hydrogen peroxide | 7722-84-1 | 1 | 1.4 | - | - |

| Standard name | Cas No: | PEL – TWA (ppm) | PEL – TAW (mg/m ³) | STEL (ppm) | STEL (mg/m ³) |
|------------------------|---------|-----------------|--------------------------------|------------|---------------------------|
| Ethyl alcohol; ethanol | 64-17-5 | 1,000 | 1,900 | - | - |

NOHSC – National Occupation Health and Safety Commission

NIOSH – National Institute for Occupation Safety and Health

OSHA – Occupational Health and Safety Authority

TWA – Time weighted average

PEL – Permissible Exposure Limit

STEL – Short term exposure limit

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.

Personal protective equipment:

Respiratory protection: Not required under normal conditions of use.

Hand protection: Not required under normal conditions of use.

Eye protection: Not required under normal conditions of use.

General safety and hygiene measures: Safety shower and eye bath. Wash thoroughly after handling. Wash contaminated clothing before re-use. Follow good housekeeping practices and good industrial hygiene in handling this material.

9. Physical and chemical properties

Appearance: Clear gel

Odour: Spearmint

Boiling point: Not established

Melting point: Not applicable

Specific gravity: 0.95

Flash point: Not established

Flammable: Flammable

Autoflammability: Does not self-ignite

Explosive properties: Does not present an explosion hazard

Oxidising properties: Strong oxidiser

9. Physical and chemical properties



| | |
|----------------------------|------------------|
| Vapour pressure (@ 20°C): | Not established |
| Solubility: | Soluble in water |
| Relative density: | Not established |
| Auto-ignition temperature: | Not established |
| Decomposition temperature: | Not established |
| pH: | Not established |

10. Stability and Reactivity

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| Chemical reactivity: | No data available. |
| Chemical Stability: | Stable under normal conditions |
| Conditions to avoid: | Heat, sunlight and naked flames. |
| Materials to avoid: | Metals, strong bases and organic solvents |
| Hazardous decomposition products: | None under normal conditions. |
| Hazardous reactivity (polymerization): | Will not occur. |

11. Toxicological information

Toxicological data on ingredients:

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| Hydrogen peroxide: | Oral LD50 Rat: 805mg/Kg (OECD Test Guideline 401) Oral LD50 Rat: 1193mg/Kg (Literature) Hydrogen Peroxide 35% as test substance. Oral LD50 Rat: 801mg/Kg (Literature) Hydrogen Peroxide 60% as test substance. Inhale LC50 Rat: >0.17mg/L (Literature) Hydrogen Peroxide 50% as test substance. Skin LD50 Rabbit: >6500mg/Kg (Literature) Skin Irritation Rabbit: Strong corrosive (Literature) Eye Irritation Rabbit: Corrosive (Literature) Repeated Dose Toxicity: Mouse 90d changes of parameters of the blood, body weight development negative. Irritative effect on gastro-intestinal tract (OECD) Genotoxicity in Vitro: Microorganisms, cell cultures - no mutagenic effects. Genotoxicity in Vivo: Micronucleus test mouse intraperitoneal - negative. |
| Carcinogenicity: | Hydrogen Peroxide is not a carcinogenic substance according to MAK, IARC, NTP, OSHA and ACGIH. |



11. Toxicological information

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|---|--|
| Ethanol: LD50/LC50: | Draize test, rabbit, eye: 500 mg Severe; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, mouse: LC50 = 39 gm/m ³ /4H; Inhalation, rat: LC50 = 20000 ppm/10H; Oral, mouse: LD50 = 3450 mg/kg; Oral, rabbit: LD50 = 6300 mg/kg; Oral, rat: LD50 = 9000 mg/kg; Oral, rat: LD50 = 7060 mg/kg. |
| Acute toxicity: | May be irritant to mucous membranes and skin. |
| Serious eye damage/irritation: | Irritating to eyes. |
| Skin corrosion/irritation: | No side effects expected for small amounts. May be irritant to mucous membranes and skin. |
| Ingestion: | No side effects expected for small amounts. |
| Germ cell mutagenicity: | No data available. |
| Carcinogenicity: | IARC: Hydrogen peroxide; – Group 3 – not classifiable as to its carcinogenicity to humans. IARC: Ethanol; – Not listed as to its carcinogenicity to humans. (IARC: International Agency for Research on Cancer, by the World Health Organisation (WHO)). |
| Reproductive toxicity: | For ethanol: Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) pre-mating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated). |
| Specific target organ toxicity – single exposure: | May cause irritation to eyes, skin and inhalation. |
| Specific target organ toxicity – repeated exposure: | No data available. |
| Aspiration hazard: | No data available. |

12. Ecological information

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|---|---|
| Self assessment: | Small quantity not hazardous to water systems. Do not allow large quantities to reach sewage systems and waterways. |
| Ecotoxicity: | |
| Ethanol: | Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3°C Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified) ria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min. |
| Persistence and biodegradability: | No data available. |
| Bioaccumulative potential: | No data available. |
| Mobility in soil: | No data available. |
| Results of PBT and VPvB assessment: | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted. |
| Other adverse effects (such as hazardous to ozone layer): | No data available. |



13. Disposal considerations

Dispose of in accordance with local official regulations.

Contaminated packaging:

Dispose of contaminated packaging as hazardous waste in accordance with local official regulations.

14. Transport information

Ethanol solution 48% UN 1170 Packing Group II - Class 3

If packed in Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met:

Chemical Kit UN3316 - Class 9

15. Regulatory information

Not scheduled poison according to the SUSMP for Australia and New Zealand.

16. Other information

The information provided herein is given in good faith, but no warranty expressed or implied is made.

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Date of preparation/revision: 2nd February 2015.

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