PULPRIOT

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **PULP RIOT DEMI-PERMANENT COLOR - GROUP 1**

**Other means of identification**

**SDS number** 30-21-0000279

**Recommended use** Personal care product used for cosmetic effect.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**US Address:**
L'Oreal USA Products, Inc
133 Terminal Avenue
Clark, NJ 07066
USA

**Canadian Address:**
L'Oreal Canada
4895 rue Hickmore
Ville St-Laurent, H4T 1K5
Canada

**Emergency Phone # :**
1-800-535-5053 (International: 352-323-3500)
In Canada - 1-613-996-6666 (Canutec (*666 Cellular))

**For further Information:** 1-732-499-2741

**Poison Control # :** 412-390-3326

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 3 |
| **Health hazards** | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 1 |
| | Sensitization, skin | Category 1 |

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

**Precautionary statement**

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

| | |
|---|---|
| **Response** | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. |
| **Storage** | Store in a well-ventilated place. Keep cool. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Hazard(s) not otherwise classified (HNOC)** | None known. |
| **Supplemental information** | None. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| ETHANOL | | 64-17-5 | < 9 |
| PEG-4 RAPESEEDAMIDE | | 85536-23-8 | < 9 |
| DECETH-3 | | 66455-15-0 | < 7 |
| LAURETH-5 CARBOXYLIC ACID | | 27306-90-7 | < 5 |
| GLYCERYL LAURYL ETHER | | 9022-75-7 | ≤ 7 |
| HEXYLENE GLYCOL | | 107-41-5 | ≤ 3 |
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | | 155601-30-2 | < 2 |
| TOLUENE-2,5-DIAMINE | | 95-70-5 | < 2 |
| OLEYL ALCOHOL | | 68002-94-8 | < 2 |
| 4-AMINO-2-HYDROXYTOLUENE | | 2835-95-2 | < 0.9 |
| P-AMINOPHENOL | | 123-30-8 | < 0.7 |
| 6-HYDROXYINDOLE | | 2380-86-1 | < 0.2 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

| | |
|---|---|
| **Inhalation** | Move to fresh air. Call a physician if symptoms develop or persist. |
| **Skin contact** | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse. |
| **Eye contact** | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| **Ingestion** | Rinse mouth. Get medical attention if symptoms occur. |
| **Most important symptoms/effects, acute and delayed** | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |
| **Indication of immediate medical attention and special treatment needed** | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| **General information** | Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.<br>Wash contaminated clothing before reuse. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable extinguishing media** | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| **Unsuitable extinguishing media** | Do not use water jet as an extinguisher, as this will spread the fire. |
| **Specific hazards arising from the chemical** | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. |
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

| | |
|---|---|
| **Fire fighting equipment/instructions** | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |
| **General fire hazards** | Flammable liquid and vapor. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| **Methods and materials for containment and cleaning up** | Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br><br>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| **Environmental precautions** | Avoid discharge into drains, water courses or onto the ground. |

## 7. Handling and storage

| | |
|---|---|
| **Precautions for safe handling** | Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| ETHANOL (CAS 64-17-5) | PEL | 1900 mg/m3 |
| | | 1000 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value | Form |
|---|---|---|---|
| ETHANOL (CAS 64-17-5) | STEL | 1000 ppm | |
| HEXYLENE GLYCOL (CAS 107-41-5) | STEL | 10 mg/m3 | Aerosol, inhalable. |
| | | 50 ppm | Vapor fraction |
| | TWA | 25 ppm | Vapor fraction |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| ETHANOL (CAS 64-17-5) | TWA | 1900 mg/m3 |
| | | 1000 ppm |
| HEXYLENE GLYCOL (CAS 107-41-5) | Ceiling | 125 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| | | 25 ppm |

**US. Workplace Environmental Exposure Level (WEEL) Guides**

| Components | Type | Value |
|---|---|---|
| TOLUENE-2,5-DIAMINE (CAS 95-70-5) | TWA | 0.025 mg/m3 |
| | | 0.005 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

**US WEEL Guides: Skin designation**

TOLUENE-2,5-DIAMINE (CAS 95-70-5) Can be absorbed through the skin.

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

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

**Eye/face protection** Applicable for industrial settings only. Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.

**Skin protection**

**Hand protection** Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

**Other** Applicable for industrial settings only. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Applicable for industrial settings only. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

**Appearance**

**Physical state** Liquid.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** 6.4 - 8.6

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** > 95 °F (> 35 °C)

**Flash point** 118.4 °F (48.0 °C) Closed Cup

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

| | |
|---|---|
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Explosive properties** | Not explosive. |
| **Fire point** | < 212.00 °F (< 100.00 °C) ISO 2592 |
| **Oxidizing properties** | Not oxidizing. |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous decomposition products** | No hazardous decomposition products are known. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Prolonged inhalation may be harmful. |
| **Skin contact** | Causes skin irritation. May cause an allergic skin reaction. |
| **Eye contact** | Causes serious eye damage. |
| **Ingestion** | Expected to be a low ingestion hazard. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |

**Information on toxicological effects**

**Acute toxicity** Not known.

| Product | Species | Test Results |
|---|---|---|
| PULP RIOT DEMI-PERMANENT COLOR - GROUP 1 | | |
| **Acute** | | |
| **Dermal** | | |
| ATEmix | | 62830 mg/kg |
| **Oral** | | |
| ATEmix | | 8273 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2) | | |
| **Acute** | | |
| **Inhalation** | | |
| *Aerosol* | | |
| LD50 | Rat | > 5.24 mg/m3, 4 h OECD 403 |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/kg OECD 401 |

| Components | Species | Test Results |
|---|---|---|
| 4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 3600 mg/kg |
| 6-HYDROXYINDOLE (CAS 2380-86-1) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | > 2000 mg/kg OECD 402 |
| **Inhalation** | | |
| *Aerosol* | | |
| LC50 | Rat | > 2000 mg/m3, 4 h OECD 403 |
| **Oral** | | |
| LD50 | Rat | 600 - 1200 mg/kg |
| DECETH-3 (CAS 66455-15-0) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | > 2000 mg/kg Based on test data for structurally similar materials. |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/kg Based on test data for structurally similar materials. |
| ETHANOL (CAS 64-17-5) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 20000 mg/kg |
| **Inhalation** | | |
| *Vapor* | | |
| LC50 | Rat | 124.7 mg/l, 4 h OECD 403 |
| **Oral** | | |
| LD50 | Rat | 10470 mg/kg OECD 401 |
| GLYCERYL LAURYL ETHER (CAS 9022-75-7) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | > 2000 mg/l OECD 402 |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/l OECD 423 |
| HEXYLENE GLYCOL (CAS 107-41-5) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | > 2000 mg/kg OECD 402 |
| **Inhalation** | | |
| LC50 | Rat | > 60 ml/m3 air, 8 h OECD 403 |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/kg OECD 420 |
| LAURETH-5 CARBOXYLIC ACID (CAS 27306-90-7) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/kg OECD 401 |

| Components | Species | Test Results |
|---|---|---|
| OLEYL ALCOHOL (CAS 68002-94-8) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 8000 mg/kg Based on test data for structurally similar materials. |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/kg OECD 401 |
| P-AMINOPHENOL (CAS 123-30-8) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 8000 mg/kg EPA OPTTS 870.1200 |
| **Inhalation** | | |
| *Dust* | | |
| LC50 | Rat | > 3.42 mg/l, 4 h OECD 403 |
| **Oral** | | |
| LD50 | Rat | 671 mg/kg EPA OPPTS 870.1100 |
| PEG-4 RAPESEEDAMIDE (CAS 85536-23-8) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | > 2000 mg/kg OECD 402 |
| **Inhalation** | | |
| LC50 | Rat | 6 mg/L air, 4 h OECD 436 |
| **Oral** | | |
| LD50 | Rat | > 2000 mg/kg OECD 401 |
| TOLUENE-2,5-DIAMINE (CAS 95-70-5) | | |
| **Oral** | | |
| LD50 | Rat | 102 mg/kg OECD 401 |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 3520 mg/kg |
| **Inhalation** | | |
| *Dust* | | |
| LC50 | Rat | 0.99 mg/l, 4 h |

**Skin corrosion/irritation** Causes skin irritation.

**Irritation Corrosion - Skin**

| | |
|---|---|
| GLYCERYL LAURYL ETHER | OECD 404<br>Result: Corrosive<br>Species: Rabbit |
| PEG-4 RAPESEEDAMIDE | OECD 404<br>Result: Irritating<br>Species: Rabbit |
| 6-HYDROXYINDOLE | OECD 404<br>Result: Not Irritating<br>Species: Rabbit |
| ETHANOL | OECD 404<br>Result: Not Irritating<br>Species: Rabbit |
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | OECD 404<br>Result: Slightly Irritating<br>Species: Rabbit |
| LAURETH-5 CARBOXYLIC ACID | OECD 404<br>Result: Slightly Irritating<br>Species: Rabbit |

**Irritation Corrosion - Skin**

| | |
|---|---|
| DECETH-3 | OECD 404, Based on test data for structurally similar materials.<br>Result: Slightly Irritating<br>Species: Rabbit |
| HEXYLENE GLYCOL | OECD 405<br>Result: Slightly irritating<br>Species: Rabbit |
| TOLUENE-2,5-DIAMINE | OECD 439<br>Result: Not Irritating<br>Species: In vitro |
| 4-AMINO-2-HYDROXYTOLUENE | OECD 439<br>Result: Not Irritating<br>Species: RhE |
| OLEYL ALCOHOL | Result: Slightly Irritating<br>Species: Rabbit |
| P-AMINOPHENOL | Result: Slightly Irritating<br>Species: Rabbit |

**Serious eye damage/eye irritation** Causes serious eye damage.

**Irritation Corrosion - Eye**

| | |
|---|---|
| P-AMINOPHENOL | EPA OPPTS 870.2400<br>Result: Slightly Irritating<br>Species: Rabbit |
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | OECD 405<br>Result: Corrosive<br>Species: Rabbit |
| 6-HYDROXYINDOLE | OECD 405<br>Result: Corrosive<br>Species: Rabbit |
| LAURETH-5 CARBOXYLIC ACID | OECD 405<br>Result: Corrosive<br>Species: Rabbit |
| TOLUENE-2,5-DIAMINE | OECD 405<br>Result: Corrosive<br>Species: Rabbit |
| ETHANOL | OECD 405<br>Result: Irritating<br>Species: Rabbit |
| HEXYLENE GLYCOL | OECD 405<br>Result: Slightly irritating<br>Species: Rabbit |
| PEG-4 RAPESEEDAMIDE | OECD 405<br>Result: Slightly Irritating<br>Species: Rabbit |
| 4-AMINO-2-HYDROXYTOLUENE | OECD 492<br>Result: Not Irritating<br>Species: RhCE |
| GLYCERYL LAURYL ETHER | Result: Corrosive |
| DECETH-3 | Result: Corrosive<br>Species: Rabbit |
| HEXYLENE GLYCOL | Result: Irritating<br>Species: Human |
| OLEYL ALCOHOL | Result: Not Irritating<br>Species: Rabbit |

**Respiratory or skin sensitization**

**Respiratory sensitization** Due to partial or complete lack of data the classification is not possible.

**Skin sensitization** May cause an allergic skin reaction.

**Skin sensitization**

| | |
|---|---|
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | EU Method B.6 - Cat 1<br>Result: Sensitizing<br>Species: Guinea pig |
| ETHANOL | OECD 406<br>Result: Not Sensitizing<br>Species: Guinea pig |

**Skin sensitization**

| | |
|---|---|
| GLYCERYL LAURYL ETHER | OECD 406<br>Result: Not Sensitizing<br>Species: Guinea pig |
| HEXYLENE GLYCOL | OECD 406<br>Result: Not Sensitizing<br>Species: Guinea pig |
| LAURETH-5 CARBOXYLIC ACID | OECD 406<br>Result: Not Sensitizing<br>Species: Guinea pig |
| PEG-4 RAPESEEDAMIDE | OECD 406<br>Result: Not Sensitizing<br>Species: Guinea pig |
| P-AMINOPHENOL | OECD 406<br>Result: Sensitizing<br>Species: Guinea pig |
| DECETH-3 | OECD 406, Based on test data for structurally similar materials.<br>Result: Not Sensitizing<br>Species: Guinea pig |
| 4-AMINO-2-HYDROXYTOLUENE | OECD 429<br>Result: Sensitizing<br>Species: Mouse |
| 6-HYDROXYINDOLE | OECD 429<br>Result: Sensitizing<br>Species: Mouse |
| TOLUENE-2,5-DIAMINE | OECD 429<br>Result: Sensitizing<br>Species: Mouse |
| OLEYL ALCOHOL | Result: Not Sensitizing<br>Species: Rabbit |

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Mutagenicity**

| | |
|---|---|
| ETHANOL | Result: In vitro and in vivo tests did not show mutagenic effects. |
| OLEYL ALCOHOL | Result: In vitro and in vivo tests did not show mutagenic effects. |
| PEG-4 RAPESEEDAMIDE | Result: In vitro and in vivo tests did not show mutagenic effects. |
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | Result: In vitro tests did not show mutagenic effects |
| DECETH-3 | Result: In vitro tests did not show mutagenic effects |
| GLYCERYL LAURYL ETHER | Result: In vitro tests did not show mutagenic effects |
| HEXYLENE GLYCOL | Result: In vitro tests did not show mutagenic effects |
| LAURETH-5 CARBOXYLIC ACID | Result: In vitro tests did not show mutagenic effects |
| TOLUENE-2,5-DIAMINE | Result: In vitro tests showed mutagenic effects which were not observed with in vivo test. |
| 4-AMINO-2-HYDROXYTOLUENE | Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests. |
| 6-HYDROXYINDOLE | Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests. |
| P-AMINOPHENOL | Result: In vivo tests showed mutagenic effects |

**Carcinogenicity** Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| TOLUENE-2,5-DIAMINE (CAS 95-70-5) | 3 Not classifiable as to carcinogenicity to humans. |

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** Possible reproductive hazard.

**Developmental effects**

| | |
|---|---|
| ETHANOL | > 20000 ppm OECD 414, No effects on development<br>Result: NOAEL<br>Species: Rat |

**Developmental effects**

| | |
|---|---|
| P-AMINOPHENOL | 100 mg/kg bw/d OECD 421<br>Result: NOAEL<br>Species: Rat |
| 4-AMINO-2-HYDROXYTOLUENE | 180 mg/kg bw/d OECD 414<br>Result: NOAEL<br>Species: Rat |
| OLEYL ALCOHOL | 2000 mg/kg bw/d OECD 422<br>Result: NOAEL<br>Species: Rat |
| HEXYLENE GLYCOL | 300 mg/kg bw/d OECD 414<br>Result: NOAEL<br>Species: Rat |
| TOLUENE-2,5-DIAMINE | 50 mg/kg bw/d OECD 414, Based on test data for structurally similar materials.<br>Result: NOAEL<br>Species: Rat |
| 6-HYDROXYINDOLE | 50 mg/kg bw/d<br>Result: NOAEL<br>Species: Rat |
| PEG-4 RAPESEEDAMIDE | 500 mg/kg bw/d OECD 421, No effects on development<br>Result: NOEL<br>Species: Rat |
| GLYCERYL LAURYL ETHER | 600 mg/kg bw/d OECD 421<br>Result: NOAEL<br>Species: Rat |

**Reproductivity**

| | |
|---|---|
| TOLUENE-2,5-DIAMINE | >= 45 mg/kg bw/d OECD 416, Based on test data for structurally similar materials.<br>Result: NOAEL<br>Species: Rat |
| P-AMINOPHENOL | 100 mg/kg bw/d OECD 421<br>Result: NOAEL<br>Species: Rat |
| HEXYLENE GLYCOL | 1000 mg/kg bw/d OECD 421<br>Result: NOEL<br>Species: Rat |
| 4-AMINO-2-HYDROXYTOLUENE | 200 mg/kg bw/d OECD 415<br>Result: NOAEL<br>Species: Rat |
| OLEYL ALCOHOL | 2000 mg/kg bw/d OECD 422<br>Result: NOAEL<br>Species: Rat |
| ETHANOL | 20700 mg/kg bw/d OECD 416, No effects on fertility<br>Result: NOAEL<br>Species: Rat |
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | 300 mg/kg bw/d OECD 415<br>Species: Rat |
| PEG-4 RAPESEEDAMIDE | 500 mg/kg bw/d OECD 421, No effects on fertility<br>Result: NOEL<br>Species: Rat |
| GLYCERYL LAURYL ETHER | 600 mg/kg bw/d OECD 421<br>Result: NOAEL<br>Species: Rat |

**Specific target organ toxicity - single exposure** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure** Due to partial or complete lack of data the classification is not possible.

| | |
|---|---|
| P-AMINOPHENOL | 10 mg/kg bw/d OECD 408<br>Result: NOAEL<br>Species: Rat<br>Test Duration: 90 d |
| TOLUENE-2,5-DIAMINE | 10 mg/kg bw/d OECD 408, Oral<br>Result: NOEAL<br>Species: Rat<br>Test Duration: 90 d |

**Specific target organ toxicity - repeated exposure**

| | |
|---|---|
| DECETH-3 | 100 mg/kg bw/d OECD 407, Based on test data for structurally similar materials.<br>Result: NOAEL<br>Species: Rat<br>Test Duration: 28 d |
| 6-HYDROXYINDOLE | 100 mg/kg bw/d OECD 408, Oral<br>Result: NOAEL<br>Species: Rat<br>Test Duration: 90 d |
| GLYCERYL LAURYL ETHER | 150 mg/kg bw/d OECD 407<br>Result: NOAEL<br>Species: Rat<br>Test Duration: 28 d |
| PEG-4 RAPESEEDAMIDE | 150 mg/kg bw/d OECD 407, Oral<br>Result: NOAEL<br>Species: Rat |
| ETHANOL | 1730 mg/kg bw/d OECD 408, Oral<br>Result: NOAEL<br>Species: Rat |
| 4-AMINO-2-HYDROXYTOLUENE | 180 mg/kg bw/d OECD 408, Oral<br>Result: NOAEL<br>Species: Rat<br>Test Duration: 90 d |
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | 250 mg/kg bw/d OECD 408, Oral<br>Result: NOAEL<br>Species: Rat<br>Test Duration: 90 d |
| HEXYLENE GLYCOL | 450 mg/kg bw/d OECD 408, Oral<br>Result: NOAEL<br>Species: Rat |

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Further information** May cause allergic respiratory and skin reactions. The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|---|---|---|---|
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | | Pseudokirchneriella subcapitata | 5.33 mg/l, 72 h EU C.3 |
| Crustacea | EC50 | Daphnia magna | 11.12 mg/l, 48 h TG 202 |
| Fish | LC50 | Danio rerio | 86.2 mg/l, 96 h EU C.1 |
| 4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Pseudokirchneriella subcapitata | 41 mg/l, 72 h OECD 201 |
| Crustacea | EC50 | Daphnia magna | 2.3 mg/l, 48 h OECD 202 |
| Fish | LC50 | Danio rerio | 25 mg/l, 96 h OECD 236 |
| Other | EC50 | Activated sludge of a predominantly domestic sewage | > 150 mg/l, 3 h OECD 209 |
| *Chronic* | | | |
| Crustacea | NOEC | Daphnia magna | 0.24 mg/l, 21 d OECD 211 |
| 6-HYDROXYINDOLE (CAS 2380-86-1) | | | |
| *Acute* | | | |

| Components | | Species | Test Results |
|---|---|---|---|
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | | Desmodesmus subspicatus | 9.1 mg/l, 72 h |
| Crustacea | EC50 | Daphnia magna | 1.74 mg/l, 48 h |
| Fish | LC50 | Danio rerio | 21.7 mg/l, 96 h |
| Other | IC50 | Activated sludge of a predominantly domestic sewage | > 0.9 mg/l, 3 d |
| DECETH-3 (CAS 66455-15-0) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Desmodesmus subspicatus | 1.8 mg/l, 72 h 92/69/EWG |
| Crustacea | EC50 | Daphnia magna | 0.39 mg/l, 48 h 92/69/EWG |
| Fish | LC50 | Cyprinus carpio | 1.2 mg/l, 96 h EU C.1 |
| Other | EC0 | Activated sludge of a predominantly domestic sewage | 140 mg/l, 3 h 88/302/EG |
| *Chronic* | | | |
| Crustacea | NOEC | Daphnia magna | <= 1 mg/l, 21 d |
| Fish | NOEC | Lepomis macrochirus | 0.16 mg/l, 10 d |
| ETHANOL (CAS 64-17-5) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Pseudokirchneriella subcapitata | 22200 mg/l, 96 h |
| Crustacea | EC50 | Ceriodaphnia dubia | 5012 mg/l, 48 h |
| Fish | LC50 | Pimephales promelas | 15300 mg/l, 96 h |
| Other | IC50 | Activated sludge of a predominantly domestic sewage | > 1000 mg/l, 3 h |
| *Chronic* | | | |
| Crustacea | NOEC | Daphnia magna | 9.6 mg/l, 9 d |
| Fish | NOEC | Danio rerio | 250 mg/l, 120 h OECD 212 |
| GLYCERYL LAURYL ETHER (CAS 9022-75-7) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Pseudokirchneriella subcapitata | 1.11 mg/l, 72 h OECD 201 |
| Crustacea | EC50 | Daphnia magna | 0.875 mg/l, 48 h OECD 202 |
| Fish | LC50 | Danio rerio | 1.61 mg/l, 96 h OECD 203 |
| Other | EC50 | Activated sludge of a predominantly domestic sewage | 31.6 mg/l, 3 h OECD 209 |
| *Chronic* | | | |
| Crustacea | NOEC | Daphnia magna | 0.036 mg/l, 21 d OECD 211 |
| Fish | NOEC | Danio rerio | 0.086 mg/l, 30 d OECD 210 |
| HEXYLENE GLYCOL (CAS 107-41-5) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Pseudokirchneriella subcapitata | > 429 mg/l, 72 hours OECD 201 |
| Crustacea | EC50 | Daphnia magna | 5410 mg/l, 48 hours OECD 202 |
| Fish | LC50 | Pimephales promelas | 10700 mg/l, 96 hours OECD 203 |
| Other | NOEC | Pseudomonas aeruginosa | 200 mg/l, 10 days |

| Components | | Species | Test Results |
|---|---|---|---|
| LAURETH-5 CARBOXYLIC ACID (CAS 27306-90-7) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Fish | LC50 | Oncorhynchus mykiss | 7.5 mg/l, 96 h |
| OLEYL ALCOHOL (CAS 68002-94-8) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Algae | 250 mg/l OECD 201 |
| Fish | LC50 | Fish | > 1000 mg/l OECD 203 |
| P-AMINOPHENOL (CAS 123-30-8) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Pseudokirchneriella subcapitata | > 0.253 mg/l, 72 h OECD 201 |
| Crustacea | EC50 | Daphnia magna | 0.182 mg/l, 48 h OECD 202 |
| Fish | LC50 | Oryzias latipes | 0.82 mg/l, 96 h OECD 203 |
| Other | EC50 | Activated sludge of a predominantly domestic sewage | 29.9 mg/l, 3 h OECD 209 |
| PEG-4 RAPESEEDAMIDE (CAS 85536-23-8) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Desmodesmus subspicatus | 410 mg/l, 72 h OECD 201 |
| Crustacea | EC50 | Daphnia magna | 3.8 mg/l, 48 h OECD 202 |
| Fish | LC50 | Oncorhynchus mykiss | 2.9 mg/l, 96 h OECD 203 |
| Other | EC50 | Activated sludge of a predominantly domestic sewage | > 1000 mg/l, 3 h OECD 209 |
| *Chronic* | | | |
| Crustacea | NOEC | Daphnia magna | 0.39 mg/l, 21 d OECD 211 |
| TOLUENE-2,5-DIAMINE (CAS 95-70-5) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Pseudokirchneriella subcapitata | 1.02 mg/l, 72 h OECD 201 |
| Crustacea | EC50 | Daphnia magna | 0.491 mg/l, 48 h OECD 202 |
| Fish | LC50 | Oryzias latipes | 0.05 mg/l, 96 h OECD 203 |
| Other | EC50 | Activated sludge of a predominantly domestic sewage | 3.75 mg/l, 3 h OECD 209 |
| *Chronic* | | | |
| Algae | NOEC | Pseudokirchneriella subcapitata | 0.11 mg/l, 72 h OECD 201 |

**Persistence and degradability**

**Biodegradability**

**Percent degradation (Aerobic biodegradation)**

| | |
|---|---|
| 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE | 33.3 % EU C.4-E<br>Result: Not readily biodegradable |
| 4-AMINO-2-HYDROXYTOLUENE | 0 % OECD 301 B<br>Result: Not Readily Biodegradable<br>Test Duration: 28 d |
| 6-HYDROXYINDOLE | Result: Not Biodegradable |
| DECETH-3 | 78 % OECD 301 B<br>Result: Readily Biodegradable<br>Test Duration: 28 d |
| ETHANOL | 84 %<br>Result: Readily Biodegradable<br>Test Duration: 20 d |
| GLYCERYL LAURYL ETHER | 88 % OECD 301 B<br>Result: Readily Biodegradable |

**Biodegradability**

**Percent degradation (Aerobic biodegradation)**

| | |
|---|---|
| HEXYLENE GLYCOL | 81 % OECD 301 F<br>Result: Readily biodegradable<br>Test Duration: 28 d |
| LAURETH-5 CARBOXYLIC ACID | 78 % OECD 301 B<br>Result: Readily Biodegradable<br>Test Duration: 28 d |
| OLEYL ALCOHOL | 87 % OECD 301 D<br>Result: Not Readily Biodegradable<br>Test Duration: 28 d |
| PEG-4 RAPESEEDAMIDE | 96 % OECD 203<br>Result: Readily Biodegradable<br>Test Duration: 28 d |
| TOLUENE-2,5-DIAMINE | 17 % OECD 301 D<br>Result: Not Readily Biodegradable<br>Test Duration: 28 d |

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

| | |
|---|---|
| 4-AMINO-2-HYDROXYTOLUENE | -0.53 EU A.8<br>0.53 OECD 117 |
| 6-HYDROXYINDOLE | 1.46 EU A.8 |
| ETHANOL | -0.31 |
| GLYCERYL LAURYL ETHER | 3.79 - 4.25 |
| P-AMINOPHENOL | 0.25 |
| PEG-4 RAPESEEDAMIDE | 5 |
| TOLUENE-2,5-DIAMINE | -0.321 OECD 107 |

**Bioconcentration factor (BCF)**

| | |
|---|---|
| P-AMINOPHENOL | 10 - 46 OECD 305 C |

**Bioaccumulation**

| | |
|---|---|
| P-AMINOPHENOL | Result: Bioaccumulation is unlikely. |
| TOLUENE-2,5-DIAMINE | Result: Bioaccumulation is unlikely. |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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** This product is ignitable (D001) RCRA hazardous wastes when intended for disposal.

**Waste from residues / unused products** Dispose of in accordance with local regulations. 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** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

**DOT**

**Materials associated with this document meet the criteria for US Department of Transportation exemption found at 49 CFR 173.150(g).**

Packages containing limited quantities of retail products in volumes in accordance with the tables listed below maybe offered under the conditions of the exemption.

**US Domestic Transportation**

**Per 49 CFR 173.150(g) exemptions:**

| | >70% Ethyl Alcohol (v/v) (w/w) | | | |
|---|---|---|---|---|
| | Inner Packaging | Net Contents | Gross Weight | Marking |
| Liquids | 8 fl. oz. | 192 fl. oz. | 65 lbs. | None |
| | ≤70% Ethyl Alcohol (v/v) (w/w) | | | |
| Liquids (glass) | 8 fl. oz. | 192 fl. oz. | 65 lbs. | None |
| | 16 fl. oz. | 192 fl. oz. | 65 lbs. | Contains Ethyl Alcohol |
| Liquids (non-glass) | 16 fl. oz. | 192 fl. oz. | 65 lbs. | None |
| | 1 gallon | 192 fl. oz. | 65 lbs. | Contains Ethyl Alcohol |
| | General Conditions | | | |
| | Inner packagings must be secured and cushioned within the outer package to prevent breakage, leakage and movement. | | | |

**DOT**

**FINISHED GOODS**

| | |
|---|---|
| **UN number** | UN1170 |
| **UN proper shipping name** | ETHANOL SOLUTION, Limited Quantity |
| **Class** | 3 |
| **Packing group** | III |
| **Transport hazard class(es)** | |
| **Label(s)** | Limited Quantity |
| **Packaging exceptions** | 4b, 150 |
| **LTD QTY Net Inner Capacity** | 5.0 L |

**BULK**

| | |
|---|---|
| **UN number** | UN1170 |
| **UN proper shipping name** | ETHANOL SOLUTION |
| **Class** | 3 |
| **Packing group** | III |
| **Transport hazard class(es)** | |
| **Label(s)** | 3 |
| **Special provisions** | 24, B1, IB3, T2, TP1 |
| **Packaging non bulk** | 203 |

**IATA**

**FINISHED GOODS**

| | |
|---|---|
| **UN number** | ID8000 |
| **UN proper shipping name** | CONSUMER COMMODITY |
| **Class** | 9 |
| **Packing group** | Not applicable. |
| **Transport hazard class(es)** | |
| **Label(s)** | Class 9, Limited Quantity |
| **ERG Number** | 9L |
| **LTD QTY Net Inner Capacity** | 0.5 L |

**BULK**

| | |
|---|---|
| **UN number** | UN1170 |
| **UN proper shipping name** | ETHANOL SOLUTION |
| **Class** | 3 |
| **Packing group** | III |
| **ERG Number** | 3L |

**IMDG**

**FINISHED GOODS**

| | |
|---|---|
| **UN number** | UN1170 |
| **UN proper shipping name** | ETHANOL SOLUTION, Limited Quantity |
| **Class** | 3 |
| **Packing group** | III |
| **Environmental Hazards** | |
| **Marine pollutant** | No. |
| **Transport hazard class(es)** | |
| **Label(s)** | Limited Quantity |
| **EmS** | F-E, S-D |
| **LTD QTY Net Inner Capacity** | 5.0 L |

**BULK**

| | |
|---|---|
| **UN number** | UN1170 |
| **UN proper shipping name** | ETHANOL SOLUTION |
| **Class** | 3 |
| **Packing group** | III |
| **Environmental hazards** | |
| **Marine pollutant** | No. |
| **EmS** | F-E, S-D |

## 15. Regulatory information

| | |
|---|---|
| **US federal regulations** | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |

**Toxic Substances Control Act (TSCA)**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

| | |
|---|---|
| ETHANOL (CAS 64-17-5) | Listed. |
| TOLUENE-2,5-DIAMINE (CAS 95-70-5) | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No (Exempt)

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| TOLUENE-2,5-DIAMINE | 95-70-5 | < 2 |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

| | |
|---|---|
| ETHANOL (CAS 64-17-5) | Low priority |

## 16. Other information, including date of preparation or last revision

| | |
|---|---|
| **Issue date** | 05-21-2020 |
| **Version #** | 01 |
| **NFPA ratings** | Health: 3<br>Flammability: 2<br>Instability: 0 |
| **Disclaimer** | The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. |