

MATERIAL SAFETY DATA SHEET

(Rev.I-Sept-2016)

Phenoxy Ethyl Propionate

Section 1: IDENTIFICATION OF THE SUBSTANCE AND OF COMPANY

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| Product Name | Phenoxy Ethyl Propionate |
| Chemical Name | 2-phenoxyethyl propanoate |
| CAS No. | 23495-12-7 |
| EINECS No. | 245-692-7 |
| Usage | In flavors and fragrances, an ingredient in the manufacturing of mixtures. Not intended for final consumer. |
| Manufacturer | Breeze Intermediates Pvt. Ltd. Z-39, Dahej SEZ, Dahej, Ta. Vagra, Dist. Bharuch (Guj.) India Tel.: +91 9825107638 Email: info@breezeipl.com , breezeipl@yahoo.in |
| Emergency telephone no. | +91 9825107638, +91 8155088809 |

Section 2: HAZARDS IDENTIFICATION

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| Classification as per EC No. 1272/2008 | --- |
| Classification as per Dir. 67/548/EEC | Substance not classified as dangerous according to the Directive 67/548/EEC |
| OSHA Hazard | No known OSHA hazards |
| Label elements including precautionary statement | <u>Pictogram:</u> None <u>Signal word:</u> Warning <u>Hazard statements:-</u> H303: May be harmful if swallowed. <u>Precautionary statements:-</u> None |
| Risk Phrases | R-36/38 – Irritating to skin and eyes. |
| HMIS Classification | Health hazard: 1 Flammability: 1 Physical hazards: 0 |
| NFPA Rating | Health hazard: 1 Fire: 1 Reactivity Hazard: 0 |
| Potential Health Effects | <u>Inhalation:</u> May be harmful if inhaled. Causes respiratory tract irritation. <u>Skin:</u> May be harmful if absorbed through skin. Causes skin irritation. <u>Eyes:</u> Causes eye irritation. <u>Ingestion:</u> Harmful if swallowed. |
| Other Hazards | The product does not contain substances included in the Substances of Very High Concern list (> 0.1 % w/w). |

Section 3: INFORMATION ON INGREDIENTS

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| Concentration of the constituent | 98-100% (wt/wt) |
| Chemical name | 2-phenoxyethyl propanoate |
| Chemical Entity | Phenylethyl alcohols, Phenylacetic acids, related esters, phenoxy acetic acids and related esters. |
| Molecular Formula | C ₁₁ H ₁₄ O ₃ (M.W. = 194.23 g/mol) |
| CAS No. | 23495-12-7 |
| EC/EINECS No. | 245-692-7 |
| FEMA | 4618 |

Section 4: FIRST AID MEASURES

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| Consumption (Ingestion) | If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Do not induce vomiting. |
| Eye Exposure | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| Inhalation | If inhaled, remove person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. |
| Skin Exposure | Wash immediately affected area with soap and plenty of water. Seek medical advice if irritation, pain, swelling, lacrimation or photophobia persists. |
| Most important symptoms and effects, both acute and delayed | Symptoms on inhalation: Choking, drowsiness, respiratory disruptions. Symptoms on eye contact: Irritation, reddening. Symptoms on skin contact: Irritation, stinging. Symptoms on ingestion: queasiness, stomach aches. |
| Immediate medical attention special treatment | Not applicable. |
| Others | Take Risk and Safety Phrases (section 15) into account |

Section 5: FIRE-FIGHTING MEASURES

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| Extinguishing Media | Water spray, Alcohol-resistant foam, carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water-jet. |
| Hazards arising from the substance | Not applicable. |
| Combustible Liquid | Keep away from source of heat, flame or spark. Cool endangered drums with water. |
| Advices for firefighters | In case of fire on the surrounding, follow the instructions: 1-Closed containers may build up pressure at elevated temperatures. 2-Avoid inhalation of generated fumes or vapors. Use appropriate respiratory equipment. 3-Do not allow the spillage of the fire extinguishing to sink into a drainage system or water area. |

Section 6: ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | Handle the product using protective gloves resistant to the the chemicals exposed. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling. |
| Environmental precautions | To avoid possible contamination of the environment. Do not discharge into any drains, surface waters or groundwaters |
| Methods and material for containment and cleaning up | Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Place in covered containers using non-sparking tools and transport outdoors. Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations. |
| Reference to other sections | Refer to section 13 Disposal considerations |

Section 7: HANDLING AND STORAGE

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| Precautions for safe handling | Keep away from food, drink and animal feedingstuffs. When using do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. |
| Condition for Storage | Should be stored in tightly sealed and preferably full containers in a cool, well-ventilated, dry place, out of direct rays of the sun, Away from areas of high fire hazard, & should be periodically inspected. Incompatible materials should be isolated from each other. |
| Specific end use(s) | Not available |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Control parameters | Declaration of substances is not required. |
| Exposure controls | <p><u>Personal protection equipment:</u> Use personal protection equipment according to Directive 89/686/EEC.</p> <p><u>Eye/Face protection:</u> Chemical safety goggles are recommended. Wash contaminated goggles before reuse.</p> <p><u>Respiratory Protection:</u> Use personal breathing apparatus whenever deemed necessary.</p> <p><u>Skin Protection:</u> Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.</p> <p><u>Engineering Controls-Ventilation:</u> The areas where the product is handled and stored should be adequately ventilated.</p> |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Colorless clear oily liquid |
| Odor | Characteristic, warm, rosy-fruity |
| pH value | No data available |
| Boiling point | 262 °C @ 760 mmHg |
| Melting point | --- |
| Flash point (closed cup) | 93.89 °C. |
| Ignition Temperature | No data available |
| Auto Inflammability | Not Determined |
| Explosive Property | Not Determined |
| Oxidizing Property | Not Determined |
| Vapour Pressure | 0.011000 mm/Hg @ 25 °C. |
| Vapour Density | 6.7 (AIR=1) |
| Solubility in Water | 283 mg/L @ 25 °C. |
| Solubility in Alcohol | Soluble |
| Specific Gravity | 1.074~1.081 @ 25 °C. |
| Partition Coefficient (Octanol/Water) | 2.262 (est.) |

Section 10: STABILITY AND REACTIVITY

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| Chemical stability | Stable under normal operational condition. |
| Reactivity | Heat, excessive heat, open flames and other sources of ignition. Strong oxidizing agents, strong reducing agents. |
| Incompatibility | Does not react with water. Avoid contact with strong oxidizing mineral acids, strong reducing agents. |
| Hazardous decomposition products | Hazardous combustion or decomposition products: carbon oxides and other unidentified organic compound. |

Section 11: TOXOLOGICAL INFORMATION

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| Acute toxicity | oral-rat LD50 4400 mg/kg Food and Cosmetics Toxicology. Vol. 14, Pg. 825, 1976. |
| Inhalation Toxicity (LD ₅₀) | No data available |
| Skin corrosion/irritation | No data available |
| Human Experience | NA |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | <i>IARC</i> : No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by IARC. <i>ACGIH</i> : No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen by ACGIH. <i>NTP</i> : No component of this product present at levels $\geq 0.1\%$ is identified as a known or anticipated carcinogen by NTP. <i>OSHA</i> : No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen by OSHA. |

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| Reproductive toxicity | No data available |
| Specific target organ toxicity single exposure (GHS) | No data available |
| Specific target organ toxicity repeated exposure (GHS) | No data available |
| Aspiration hazard | No data available |
| Potential health effects | <u>Inhalation</u> : May be harmful if inhaled. Causes respiratory tract irritation. <u>Ingestion</u> : Harmful if swallowed. <u>Skin</u> : May be harmful if absorbed through skin. Causes skin irritation. <u>Eyes</u> : Causes eye irritation. |
| Signs and Symptoms of Exposure | No data available |
| Additional Information | RTECS: KM0900000 for cas# 23495-12-7 |

Section 12: ECOLOGICAL INFORMATION

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| General | Prevent contamination of soil, ground and surface waters. Do not discharge product unmonitored into the environment. |
| Acute aquatic Toxicity | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPvB assessment | Not determined. Not listed on EC's PBT substances list. |
| Other adverse effects | Do not allow the material to enter streams, sewers or other waterways |

Section 13: DISPOSAL CONSIDERATION

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| Product Disposal | Dispose of according all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. |
| Packaging | Don not re-use empty containers. Empty residue into a suitable disposal site. Contaminated packaging should be disposed of as unused product. |

Section 14: TRANSPORT INFORMATION

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| <i>International Carriage of Dangerous Goods by Road (ADR)</i> | |
| UN No. | N/A |
| Proper Shipping Name | Not subject to ADR. |
| Packing Group | --- |
| Class | --- |
| Tunnel restriction code | --- |
| Label | --- |
| <i>Air Transport (ICAO/IATA)</i> | |
| UN No. | N/A |
| Proper Shipping Name | Not restricted |
| Class | --- |
| Packing Group | --- |
| <i>Sea Transport (IMDG)</i> | |
| UN No. | N/A |
| Proper Shipping Name | Not restricted |
| Class | --- |
| Packing Group | --- |
| EmS | --- |
| Marine Pollutant | No |
| <i>DOT (US)</i> | |
| Not dangerous goods | |

Section 15: REGULATORY INFORMATION

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| Safety, health and environmental regulations/legislation specific for the substance | Substance(s) is (are) either included in EINECS, ELINCS, NPL inventories or exempted |
| Hazard Symbol | Xi- Irritant |
| Risk Phrases | R 36/38 - Irritating to skin and eyes. |
| Safety Phrases | S 02 - Keep out of the reach of children. S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36 - Wear suitable protective clothing. |
| WGK Germany | 2 |
| Chemical safety assessment | Not available |

Section 16: OTHER INFORMATION

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| Hazardous materials identification system | Fire:1 Health:1 Reactivity: 0 Personal Protection: B |
| This material should be used for industrial purposes only. | |

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