

501098 ETHYL ANTHRANILATE

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| 1. IDENTIFICATION | | | |
|-----------------------------------|---|--|--|
| Product Description: | ETHYL ANTHRANILATE | | |
| CAS # | 87-25-2 | 87-25-2 | |
| FEMA Number | 2421 | | |
| Other means of identification | | | |
| Vigon Item # | 501098 | | |
| Recommended use | | Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines. | |
| Recommended restrictions | For Manufacturing Use On | ly | |
| <u>Company</u> | | 24 Hour Emergency Response Information | |
| Vigon International, Inc. | | INFOTRAC (ACCT# 78928); | |
| 127 Airport Road | | 1-800-535-5053 WITHIN THE U.S.A. | |
| E. Stroudsburg, PA 18301 | | 1-352-323-3500 OUTSIDE THE U.S.A. | |
| For information call: 570-476-630 | 0 | | |
| Web Site: www.vigon.com | | | |
| Manufacturer/Importer/Supplier/D | istributor information | | |
| Manufacturer | | | |
| Company name | Vigon International, Inc. | | |
| Address | 127 Airport Road | | |
| | E. Stroudsburg, PA 18301 United States | | |
| Telephone | For information call: | 570-476-6300 | |
| Website | www.vigon.com | | |
| E-mail | Not available. | | |
| Emergency phone number | INFOTRAC | (ACCT# 78928); | |
| | 1-800-535-5053 | WITHIN THE U.S.A. | |
| | 1-352-323-3500 | OUTSIDE THE U.S.A. | |
| 2. HAZARD(S) IDENTIFICA | TION | | |
| Physical hazards | Not classified. | | |
| Health hazards | Acute toxicity, oral | Category 5 | |
| Environmental hazards | Not classified. | | |
| Label elements | | | |
| Hazard symbol | None. | | |
| Signal word | Warning | | |
| Hazard statement | May be harmful if swallowed. | | |
| Precautionary statement | ent | | |
| Prevention | Observe good industrial hy | giene practices. | |
| Response | Call a POISON CENTER/c | doctor if you feel unwell. | |
| Storage | Store away from incompati | ible materials. | |
| | | | |



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| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
|--|---|
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | 100% of the substance consists of component(s) of unknown acute dermal toxicity. 100% of the substance consists of component(s) of unknown acute inhalation toxicity. 100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the substance consists of component(s) of unknown long-term hazards to the aquatic environment. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|--------------------|---------------------------|------------|-----|
| ETHYL ANTHRANILATE | ETHYL O-AMINOBENZOATE | 87-25-2 | 100 |
| | O-(ETHOXYCARBONYL)ANILINE | | |
| | 2-CARBOETHOXYANILINE | | |
| | ETHYL 2-AMINOBENZOATE | | |

4. FIRST-AID MEASURES

| 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. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| Indication of immediate medical attention and special treatment needed | Not available. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | Water spray, fog, CO2, 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, helm face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural 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.



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| | | |
| 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. | |

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

General fire hazards

| Personal precautions, protective equipment and emergency procedures Methods and materials for containment and cleaning up | Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Collect and dispose of spillage as indicated in section 13 of the SDS. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. |
|---|--|
| | The product is immiscible with water and will spread on the water surface. |
| | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. |
| | Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains. |
| | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. |
| | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. |

7. HANDLING AND STORAGE

| Precautions for safe handling | Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. |
|---|---|
| Conditions for safe storage, including any incompatibilities | Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Occupational exposure limits | This substance has no PEL, TLV, or other recommended exposure limit. |
|----------------------------------|---|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation |
| | should be provided so that exposure limits are not exceeded. |



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Individual protection measures, such as personal protective equipment

| Eye/face protection | Wear safety glasses with side shields (or goggles). |
|------------------------------------|--|
| Skin protection Hand protection | Chemical resistant gloves. |
| Other | Wear suitable protective clothing. |
| Respiratory protection | Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | Keep away from food and drink. 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. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | Refer to Spec Sheet |
|--|-----------------------------------|
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Refer to Spec Sheet |
| Odor | Characteristic. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | 55.4 °F (13 °C) |
| Initial boiling point and boiling | 514.4 °F (268 °C) 101.325 kPa |
| range | |
| Flash point | > 200.0 °F (> 93.3 °C) Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explo | |
| Flammability limit - lower (%) | Not available. |
| (<i>™)</i> Flammability limit - upper | Not available. |
| (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 0.01 mm Hg at 25 °C |
| Vapor density | 5.7 |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Insoluble |
| Partition coefficient (n-octanol/water) | 2.57 |
| | |



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| Decomposition temperature | Not available. |
|---------------------------|-------------------------------|
| Viscosity | Not available. |
| Other information | |
| Density | 1.12 g/cm3 estimated at 20 °C |
| Explosive properties | Not explosive. |
| Molecular formula | C9-H11-N-O2 |
| Molecular weight | 165.19 g/mol |
| Oxidizing properties | Not oxidizing. |
| Specific gravity | 1.12 at 20 °C |

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 | Avoid temperatures exceeding the flash point. Contact with incompatible materials. | |
| Incompatible materials | Peroxides. Phenols. | |
| Hazardous decomposition products | No hazardous decomposition products if stored and handled as indicated. | |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| Inhalation | Knowledge about health hazard is incomplete. |
|--|---|
| Skin contact | Causes mild skin irritation. |
| Eye contact | Knowledge about health hazard is incomplete. Causes mild eye irritation. |
| Ingestion | May be harmful if swallowed. |
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
| Information on toxicological effects | |
| Acute toxicity | May be harmful if swallowed. |
| Skin corrosion/irritation | Due to partial or complete lack of data the classification is not possible. Skin - rabbit - Skin irritation - 24 h |
| Serious eye damage/eye irritation | Due to partial or complete lack of data the classification is not possible. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Due to partial or complete lack of data the classification is not possible. |
| Skin sensitization | Due to partial or complete lack of data the classification is not possible. |
| Germ cell mutagenicity | Due to partial or complete lack of data the classification is not possible. |
| Carcinogenicity | Due to partial or complete lack of data the classification is not possible. |



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| IARC Monographs. Overall E Not listed. | valuation of Carcinogenicity | | | |
|--|---|--|--|--|
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) | | | | |
| Not listed. | | | | |
| US. National Toxicology Prog | gram (NTP) Report on Carcinogens | | | |
| Not listed. | | | | |
| Reproductive toxicity | Due to partial or complete lack of data the classification is not possible. | | | |
| 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. | | | |
| Aspiration hazard | Due to partial or complete lack of data the classification is not possible. | | | |
| 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. | | | |
| Persistence and degradability | No data is available on the degradability of this substance. | | | |
| Bioaccumulative potential | | | | |
| Partition coefficient n-octanol | / water (log Kow) | | | |
| 2.57 | | | | |
| 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 CONSIDER | ATIONS | | | |
| 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 / unused products | 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

ADN

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.



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RID

Not regulated as dangerous goods.

DOT

BULK

Not regulated as dangerous goods.

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Not regulated. 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 Not regulated. (SDWA)



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| 16. OTHER INFORM | ATION, INCLUDING DATE OF PREPARATION OR LAST REVISION |
|----------------------|--|
| Issue date | 11-29-2015 |
| Revision date | 03-13-2020 |
| Version # | 03 |
| HMIS® ratings | Health: 1 Flammability: 1 Physical hazard: 0 |
| Disclaimer | Vigon International, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information disposal, and should not be considered as a guarantee or quality specification. The above information, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling p |
| Revision information | This document has undergone significant changes and should be reviewed in its entirety. |