

502732 ALDEHYDE C-12 MNA

 Revision Date: 05-21-2020
 Page 1 of 10

 Version # 03
 Print Date: 05-21-2020

| 1. IDENTIFICATION | | |
|---|--|---|
| Product Description: | ALDEHYDE C-12 MNA | |
| CAS# | 110-41-8 | |
| FEMA Number | 2749 | |
| Other means of identification Vigon Item # | 502732 | |
| Recommended use | | flavor ingredient which may be used in flavor and fragrance gal and IFRA or FEMA GRAS/FDA guidelines. |
| Recommended restrictions | For Manufacturing Use Onl | у |
| <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: 570-476-63 | 00 | |
| Web Site: www.vigon.com | | |
| Manufacturer/Importer/Supplier/ Manufacturer | Distributor information | |
| Company name Address | Vigon International, Inc. 127 Airport Road E. Stroudsburg, PA 18301 United States | |
| Telephone | For information call: | 570-476-6300 |
| Website | www.vigon.com | |
| E-mail | regulatory@vigon.com | |
| Emergency phone number | INFOTRAC 1-800-535-5053 1-352-323-3500 | (ACCT# 78928); WITHIN THE U.S.A. OUTSIDE THE U.S.A. |

2. HAZARD(S) IDENTIFICATION

| Physical hazards | Not classified. | |
|-----------------------|--|-------------|
| Health hazards | Serious eye damage/eye irritation | Category 2A |
| | Sensitization, skin | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 1 |
| | Hazardous to the aquatic environment, long-term hazard | Category 1 |

Label elements





502732 ALDEHYDE C-12 MNA

| Revision Date: 05-21-2020 | Page 2 of 10 |
|---------------------------|------------------------|
| Version # 03 | Print Date: 05-21-2020 |

| Signal word | Warning |
|--|---|
| Hazard statement | May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. |
| Precautionary statement | |
| Prevention | Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves. |
| Response | IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | After prolonged contact with highly porous materials, this product may spontaneously combust. |
| Supplemental information | 100% of the substance consists of component(s) of unknown acute inhalation toxicity. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|--------------------|---|------------|-----|
| 2-METHYL UNDECANAL | methyl N-nonyl acetaldehyde 2- methyl-1-undecanal 2- methylhendecanal | 110-41-8 | 100 |

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 | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. |
| 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. |



502732 ALDEHYDE C-12 MNA

Revision Date: 05-21-2020 Version # 03 Page 3 of 10 Print Date: 05-21-2020

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. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. |
| 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. |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | 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. |
|---|---|
| Methods and materials for containment and cleaning up | 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. |



502732 ALDEHYDE C-12 MNA

Revision Date: 05-21-2020 Version # 03 Page 4 of 10 Print Date: 05-21-2020

7. HANDLING AND STORAGE

| Precautions for safe handling | Do not handle or store near an open flame, heat or other sources of ignition. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. |
|--|--|
| Conditions for safe storage, including any incompatibilities | Do not store in direct sunlight. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Keep under a nitrogen blanket. |

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. |
| Individual protection measures, su | ch as personal protective equipment |
| Eye/face protection | Face shield is recommended. |
| Skin protection | |
| Hand protection | Chemical resistant gloves. |
| Other | Use of an impervious apron is recommended. |
| 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 | 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 | 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 | Not available. |
| Initial boiling point and boiling | 500 °F (260 °C) |
| range | |
| Flash point | > 200.0 °F (> 93.3 °C) Closed Cup |
| | |



502732 ALDEHYDE C-12 MNA

Revision Date: 05-21-2020 Version # 03 Page 5 of 10 Print Date: 05-21-2020

| _ | | |
|-----|---------------------------------------|---------------------|
| | aporation rate | Not available. |
| Fla | ammability (solid, gas) | Not applicable. |
| Up | per/lower flammability or explo | sive limits |
| | Flammability limit - lower (%) | Not available. |
| | Flammability limit - upper (%) | Not available. |
| | Explosive limit - lower (%) | Not available. |
| | Explosive limit - upper (%) | Not available. |
| Va | por pressure | 0.03 mm Hg at 25 °C |
| Va | por density | 7.4 |
| Re | lative density | Not available. |
| So | lubility(ies) | |
| | Solubility (water) | Insoluble |
| | rtition coefficient octanol/water) | Not available. |
| Au | to-ignition temperature | Not available. |
| De | composition temperature | Not available. |
| Vis | scosity | Not available. |
| Ot | her information | |
| | Explosive properties | Not explosive. |
| | Molecular formula | C12H24O |
| | Molecular weight | 184.32 g/mol |
| | | 184.32 g/mol |
| | Oxidizing properties | Not oxidizing. |
| | Specific gravity | 0.85 at 25 °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 | Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. |
| Incompatible materials | Strong oxidizing agents. |
| 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 | May cause an allergic skin reaction. |



502732 ALDEHYDE C-12 MNA

| Revision Date: 05-21-2020 | | Page 6 of 10 |
|--|--|--|
| Version # 03 | | Print Date: 05-21-2020 |
| | | |
| Eye contact | Causes serious eye irritation. Cau | ses mild eye irritation. |
| Ingestion | Expected to be a low ingestion ha | zard. |
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. | |
| Information on toxicological effect | ts | |
| Acute toxicity | Not known. | |
| Product | Species | Test Results |
| 2-METHYL UNDECANAL (CAS 1 | 110-41-8) | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 5000 mg/kg |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| Skin corrosion/irritation | Due to partial or complete lack of data the classification is not possible. Irritation (dermal, guinea pig) : mild irritant @ 5%, moderate irritant @ 10% Irritation (Human max): non irritant @ 4% severe irritant @ 30% and 50% | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| 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. Sensitization (OET)(OECD 406): non sensitizing @ 4% Sensitization (Human max.): non sensitizing @ 4% Photo-toxicity (guinea pig): No effects | |
| 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. | |
| IARC Monographs. Overall E | Evaluation of Carcinogenicity | |
| Not listed. | | |
| OSHA Specifically Regulated | d Substances (29 CFR 1910.1001-10 | 53) |
| Not listed. | | |
| ••• | gram (NTP) Report on Carcinogens | |
| Not listed. | Due to porticility service into the local of | data the algorithmation is not a contractive |
| Reproductive toxicity | | data the classification is not possible. |
| Specific target organ toxicity - single exposure | ue 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. | |



502732 ALDEHYDE C-12 MNA

Revision Date: 05-21-2020 Version # 03 Page 7 of 10 Print Date: 05-21-2020

12. ECOLOGICAL INFORMATIONEcotoxicityVery toxic to aquatic life with long lasting effects.Persistence and degradabilityReadily biodegradability (OECD 301B): 68.1%
Readily biodegradability (OECD 301D): 55%Bioaccumulative potentialNo data available.Mobility in soilNo data available.Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

13. DISPOSAL CONSIDERATIONS

| 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. |

potential, endocrine disruption, global warming potential) are expected from this component.

14. TRANSPORT INFORMATION

| ADN | |
|----------------------------|--|
| UN number | 3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-METHYL UNDECANAL) |
| Transport hazard class(es) | 9 |
| Subsidiary class(es) | - |
| Packing group | III |
| Environmental hazards | Yes |
| Labels required | 9 |
| ADR | |
| UN number | 3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-METHYL UNDECANAL) |
| Transport hazard class(es) | 9 |
| Subsidiary class(es) | - |
| Packing group | III |
| Environmental hazards | Yes |
| Labels required | 9 |
| RID | |
| UN number | 3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-METHYL UNDECANAL) |
| Transport hazard class(es) | 9 |
| Subsidiary class(es) | - |
| Packing Group | III |
| | |

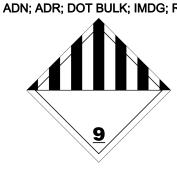


502732 ALDEHYDE C-12 MNA

 Revision Date: 05-21-2020
 Page 8 of 10

 Version # 03
 Print Date: 05-21-2020

| Environmental Hazards | Yes |
|------------------------------|--|
| Labels required | 9 |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| DOT | |
| BULK | |
| UN number | 3082 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-METHYL UNDECANAL) |
| Hazard class | 9 |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | Yes |
| Labels required | 9 |
| DOT | |
| NON-BULK | |
| Not regulated as dangerous g | loods. |
| ΙΑΤΑ | |
| Not regulated as dangerous g | loods. |
| IMDG | |
| UN number | 3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-METHYL UNDECANAL) |
| Transport hazard class(es) | 9 |
| Subsidiary class(es) | - |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | Yes |
| Labels required | 9 |
| Transport in bulk according | Not applicable. |
| to Annex II of MARPOL | |
| 73/78 and the IBC Code | |
| ADN; ADR; DOT BULK; IMDG; RI | D |
| | |





502732 ALDEHYDE C-12 MNA

Revision Date: 05-21-2020 Version # 03 Page 9 of 10 Print Date: 05-21-2020

Marine pollutant



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 Substances List (40 CFR 302.4) Not listed. SARA 304 Emergency release Intification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. SARA 302 Extremely hazardous thorization Act of 1986 (SARA) SARA 302 Extremely hazardous Versited. SARA 311/312 Hazardous Yes Classified hazard Serious eye damage or eye irritation Classified hazard Serious eye damage or eye irritation | |
|--|---|
| 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 Yes chemical Serious eye damage or eye irritation Classified hazard Serious eye damage or eye irritation categories Serious eye damage or eye irritation | n |
| 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 Yes chemical Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization | |
| 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 Yes chemical Classified hazard Serious eye damage or eye irritation categories Serious regulated of the sensitization for the sensitization | |
| 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 Not listed. SARA 311/312 Hazardous Yes chemical Serious eye damage or eye irritation Classified hazard Serious eye damage or eye irritation Respiratory or skin sensitization Respiratory or skin sensitization | |
| 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 Yes chemical Classified hazard Serious eye damage or eye irritation Respiratory or skin sensitization | |
| 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 Yes chemical Classified hazard Serious eye damage or eye irritation Respiratory or skin sensitization | |
| 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 Yes chemical Serious eye damage or eye irritation Classified hazard Serious eye damage or eye irritation Respiratory or skin sensitization | |
| Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical Serious eye damage or eye irritation Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization | |
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| SARA 311/312 Hazardous Yes chemical Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization | |
| chemicalClassified hazardSerious eye damage or eye irritationcategoriesRespiratory or skin sensitization | |
| categories Respiratory or skin sensitization | |
| | |
| 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) | |

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

| Issue date | 11-30-2015 |
|---------------|------------|
| Revision date | 05-21-2020 |



502732 ALDEHYDE C-12 MNA

| Revision Date: 05-21-2020 | Page 10 of 10 |
|---------------------------|--|
| Version # 03 | Print Date: 05-21-2020 |
| | |
| Version # | 03 |
| HMIS® ratings | Health: 2 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 products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this 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 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 procedures should be provided to all handlers and users, taking into account the intended use and th |
| Revision information | This document has undergone significant changes and should be reviewed in its entirety. |