

500948 NONADIENAL 2-TRANS, 6-CIS

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| 1. IDENTIFICATION | | | |
|--|--|---|------------------------|
| Product Description: | NONADIENAL 2-TRANS, 6-CIS | | |
| CAS # | 557-48-2 | | |
| FEMA Number | 3377 | | |
| Other means of identification Vigon Item # | 500948 | | |
| 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 Only | | |
| <u>Company</u> | | 24 Hour Emergence | y Response Information |
| Vigon International, LLC | | INFOTRAC (ACCT | |
| 127 Airport Road | | 1-800-535-5053 W | |
| E. Stroudsburg, PA 18301 | | 1-352-323-3500 0 | UTSIDE THE U.S.A. |
| For information call: 570-476-6300 | | | |
| Web Site: www.vigon.com | | | |
| Manufacturer/Importer/Supplier/Dis Manufacturer | tributor information | | |
| Company name Address | Vigon International, LLC 127 Airport Road E. Stroudsburg, PA 18301 United States | | |
| Telephone | For information call: | 570-476-6300 | |
| Website E-mail | www.vigon.com regulatory@vigon.com | | |
| Emergency phone number | INFOTRAC 1-800-535-5053 1-352-323-3500 | (ACCT# 78928); WITHIN THE U.S OUTSIDE THE U | |
| 2. HAZARD(S) IDENTIFICA | TION | | |
| Physical hazards | Flammable liquids | | Category 4 |
| Health hazards | Skin corrosion/irritation | | Category 2 |
| | Serious eye damage/eye in | ritation | Category 2A |
| | Sensitization, skin | | Category 1 |
| Environmental hazards | Not classified. | | |
| Label elements | | | |





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| Hazard statement | Combustible liquid. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. | |
| Precautionary statement | | |
| Prevention | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist/vapors. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves. | |
| Response | 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. In case of fire: Use appropriate media to extinguish. | |
| Storage | Store in a well-ventilated place. | |

| Discossi | |
|----------|---|
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Hazard(s) not otherwise After prolonged contact with highly porous materials, this product may spontaneously combust.

Supplemental information100% of the substance consists of component(s) of unknown acute oral toxicity. 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 long-term hazards to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

classified (HNOC)

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------|--|------------|-----|
| NONADIENAL 2-TRANS, 6-CIS | (2E,6Z)-nona-2,6-dienal trans-2-cis-6- nonadienal nonadienal 2-trans 6-cis | 557-48-2 | 100 |
| | 2,6- nonadienal, (2E,6Z)- | | |

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. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |
| Indication of immediate medical attention and special treatment needed | Not available. |



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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. 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 standard firefighting procedures and consider the hazards of other involved materials. |
| 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. |
|---|---|
| Methods and materials for containment and cleaning up | Collect and dispose of spillage as indicated in section 13 of the SDS. |
| | Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | 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. 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). |



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| Appropriate engineering controls | Use explosion-proof ventilation equipment to stay below exposure limits. | |
|---|---|--|
| Individual protection measures, such as personal protective equipment | | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). 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 | 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 | 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 range | 368.6 °F (187 °C) | |
| Flash point | 170.0 °F (76.7 °C) Closed Cup | |
| Evaporation rate | Not available. | |
| Flammability (solid, gas) | Not applicable. | |
| Upper/lower flammability or explosive limits | | |
| Explosive limit - lower (%) | Not available. | |
| Explosive limit - upper (%) | Not available. | |
| Vapor pressure | 0.03 kPa (77 °F (25 °C)) | |
| Vapor density | 4.8 | |
| Relative density | Not available. | |
| Solubility(ies) | | |
| Solubility (water) | Insoluble | |
| Partition coefficient (n-octanol/water) | Not available. | |
| Auto-ignition temperature | Not available. | |
| Decomposition temperature | Not available. | |



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| Other informationDensity0.87 g/cm3 estimated at 25 °C |
|---|
| Density0.87 g/cm3 estimated at 25 °C |
| |
| Explosive properties Not explosive. |
| Flammability class Combustible IIIA estimated |
| Molecular weight 138.21 g/mol |
| Oxidizing properties Not oxidizing. |
| Specific gravity 0.87 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 | No adverse effects due to inhalation are expected. |
|--|---|
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | Causes serious eye irritation. |
| 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. 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 |
| NONADIENAL 2-TRANS, 6-CI | IS (CAS 557-48-2) | |
| Acute | | |
| Dermal | | |
| | Rabbit | 5000 mg/kg |
| Oral | | |
| | Rat | > 8000 mg/kg |
| Skin corrosion/irritation | Causes skin irritation. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |



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| Respiratory or skin sensitization | |
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | |
| IARC Monographs. Overall | Evaluation of Carcinogenicity |
| Not listed. | |
| OSHA Specifically Regulate | d Substances (29 CFR 1910.1001-1053) |
| Not listed. | |
| US. National Toxicology Pro | ogram (NTP) Report on Carcinogens |
| Not listed. | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| 12. ECOLOGICAL INFOR | MATION |
| 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 | No data available. |
| 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 | 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. |



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14. TRANSPORT INFORMATION

ADN

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

DOT

BULK

| UN number | NA1993 |
|-----------------------|--|
| Proper shipping name | COMBUSTIBLE LIQUID, N.O.S. (NONADIENAL 2-TRANS, 6-CIS) |
| Hazard class | Combustible liq |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | No |
| Packaging exceptions | 150 |
| Packaging bulk | 241 |
| Labels required | None |
| . – | |

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.



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| SARA 311/312 Hazardous chemical | Yes |
|---|--|
| Classified hazard categories | Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Aspiration hazard |
| SARA 313 (TRI reporting) Not regulated. | |
| Other federal regulations | |
| Clean Air Act (CAA) Section 1 | 12 Hazardous Air Pollutants (HAPs) List |
| Not regulated. Clean Air Act (CAA) Section 1 | 12(r) Accidental Release Prevention (40 CFR 68.130) |
| Not regulated. | |
| Safe Drinking Water Act (SDWA) | Not regulated. |
| 16. OTHER INFORMATION | I, INCLUDING DATE OF PREPARATION OR LAST REVISION |
| Issue date | 11-26-2015 |
| Revision date | 01-09-2024 |
| Version # | 02 |
| HMIS® ratings | Health: 2 Flammability: 2 Physical hazard: 0 |
| List of abbreviations | ACGIH: American Conference of Governmental Industrial Hygienists. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstract Service. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MARPOL: International Convention for the Prevention of Pollution from Ships. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. |

TWA: Time Weighted Average.



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Disclaimer

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Revision information

This document has undergone significant changes and should be reviewed in its entirety.