

**SAFETY DATA SHEET****500111 DIHYDRO MYRCENOL**

Revision Date: 07-11-2019

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**1. IDENTIFICATION****Product Description:** DIHYDRO MYRCENOL**CAS #** 18479-58-8**Other means of identification****Vigon Item #** 500111**Recommended use** Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines.**Recommended restrictions** For Manufacturing Use OnlyCompanyVigon International, Inc.  
127 Airport Road  
E. Stroudsburg, PA 18301  
For information call: 570-476-6300  
Web Site: www.vigon.com24 Hour Emergency Response InformationINFOTRAC (ACCT# 78928);  
1-800-535-5053 WITHIN THE U.S.A.  
1-352-323-3500 OUTSIDE THE U.S.A.**Manufacturer/Importer/Supplier/Distributor 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) IDENTIFICATION**

<b>Physical hazards</b>	Flammable liquids	Category 4
<b>Health hazards</b>	Acute toxicity, oral	Category 5
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

**Label elements**

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<b>Signal word</b>	Warning
<b>Hazard statement</b>	Combustible liquid. May be harmful if swallowed. Causes skin irritation. Causes skin and eye irritation. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	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. Call a POISON CENTER/doctor if you feel unwell. If skin irritation 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.
<b>Storage</b>	Store in a well-ventilated place.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	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	%
2,6-DIMETHYL-7-OCTEN-2-OL	DIMYRCETOL 2,6-DIMETHYL-7-OCTEN-2-OL 7-Octen-2-ol, 2,6-dimethyl- 2,6-Dimethyloct-7-en-2-ol lymolene	18479-58-8	100

### 4. FIRST-AID MEASURES

<b>Inhalation</b>	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.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	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.

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#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Water spray, fog, CO<sub>2</sub>, 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, 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.

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#### 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.

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#### 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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

<b>Occupational exposure limits</b>	This substance has no PEL, TLV, or other recommended exposure limit.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	<ul style="list-style-type: none"> <li>· Ingredients with limit values that require monitoring at the workplace: None</li> <li>· DNEL (Derived No-Effect Level): Workers - Long-term exposure Systemic effects - dermal: 20.8 mg/kg bw/day Systemic effects - inhalation: 73.5 mg/m<sup>3</sup></li> <li>· DNEL (Derived No-Effect Level): General population - Long-term exposure Systemic effects - dermal: 12.5 mg/kg bw/day Systemic effects - inhalation: 21.7 mg/m<sup>3</sup> Systemic effects - oral: 12.5 mg/kg bw/day</li> <li>· PNEC (Predicted No-Effect Concentration) aqua (freshwater): 27.8 µg/L</li> <li>· PNEC (Predicted No-Effect Concentration) aqua (marine water): 2.78 µg/L</li> <li>· PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant: 10 mg/L</li> <li>· PNEC (Predicted No-Effect Concentration) sediment (freshwater): 0.594 mg/kg sediment dw</li> <li>· PNEC (Predicted No-Effect Concentration) sediment (marine water): 0.0594 mg/kg sediment dw</li> <li>· PNEC (Predicted No-Effect Concentration) soil: 0.103 mg/kg soil dw</li> <li>· PNEC (Predicted No-Effect Concentration) oral: 111 mg/kg food</li> <li>· PNEC (Predicted No-Effect Concentration) aqua (intermittent releases): 0.278 µg/L</li> <li>· Additional information: This sheet is based on the current valid lists for occupational exposure limit values. Concerning DNELs and PNECs, this sheet is based on the REACH chemical safety evaluation.</li> </ul>
<b>Appropriate engineering controls</b>	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	When using do not smoke. 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.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Refer to Spec Sheet
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Refer to Spec Sheet
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	379.4 °F (193 °C)
<b>Flash point</b>	171.0 °F (77.2 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.17 mm Hg at 25 °C
<b>Vapor density</b>	5.4
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Molecular formula</b>	C <sub>10</sub> H <sub>20</sub> O
<b>Molecular weight</b>	156.27 g/mol 156.27 g/mol
<b>Oxidizing properties</b>	Not oxidizing.
<b>Specific gravity</b>	0.83 at 25 °C

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#### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products if stored and handled as indicated.

#### 11. TOXICOLOGICAL INFORMATION

##### Information on likely routes of exposure

<b>Inhalation</b>	Knowledge about health hazard is incomplete.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation. Causes mild eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**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.

##### Information on toxicological effects

**Acute toxicity** May be harmful if swallowed.

Product	Species	Test Results
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2,6-DIMETHYL-7-OCTEN-2-OL (CAS 18479-58-8)

**Acute**

*Oral*

LD50	Rat	3600 mg/kg
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**Presumed Non-Toxic**

*Dermal*

LD50	Rabbit	>= 5000 mg/kg
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**Skin corrosion/irritation** Causes skin irritation. Irritant effects were observed with structurally related substances in skin irritation studies in rabbits.

**Serious eye damage/eye irritation** Causes serious eye irritation. The substance was moderately irritating to the rabbit eye in an eye irritation study. It was not rated an eye irritant under the Directive 67/548/EEC. However it has to be classified for eye irritation (Category 2) under the CLP regulation [Regulation (EC No 1272/2008)] based on a mean corneal opacity score > 1.

##### Respiratory or skin sensitization

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

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#### Skin sensitization

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

No evidence of a skin sensitization response was observed with a structurally related substance in the murine Local Lymph Node Assay (LLNA – OECD 429). This result is supported by other animal and human studies conducted with different structural analogues.

#### Germ cell mutagenicity

No mutagenicity was observed in bacteria (OECD 471, Ames test).

No genotoxic effects were observed in mammalian cells (in vitro Mammalian Cell Gene Mutation Test - OECD 476 and in vitro Mammalian Chromosome Aberration Test - OECD 473). 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.

Dihydromyrcenol has not been tested for carcinogenicity. Two structurally related substances failed to produce lung or skin tumors in susceptible strains of mice.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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

Not listed.

#### Reproductive toxicity

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

Effects on fertility:

A multigenerational reproductive and developmental toxicity study has not been conducted with the substance. In a 90-day repeated dose oral gavage study in rats with a structural analogue, there were no effects noted in female rats on reproductive organs or oestrus cycle. In male rats, there were no treatment related effects of toxicological significance.

Developmental toxicity:

No information available on the developmental toxicity of the substance. The developmental toxicity of a structural analogue was determined in rats:

NOAEL (maternal toxicity): 1000 mg/kg bw/day (nominal) (At this dose level, feed consumption was significantly reduced. Maternal body weight gains were reduced by 5%.)

NOAEL (developmental toxicity): 1000 mg/kg bw/day (nominal) (Minimal reductions in fetal weights and small increases in reversible variations in skeletal ossification.)

NOEL (maternal toxicity): 500 mg/kg bw/day (nominal)

NOEL (developmental toxicity): 500 mg/kg bw/day (nominal)

#### Specific target organ toxicity - single exposure

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

No specific target organ toxicity was observed during an acute oral study in rats and an acute dermal toxicity study in rabbits, conducted with a structurally related substance.

#### Specific target organ toxicity - repeated exposure

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

A structurally related substance was tested in a 90-day oral gavage study in rats. Male rat specific kidney effects associated with alpha-2u-globulin accumulation were observed. Other body and organ weight changes noted were not associated with any observed pathological findings and were thus not indicative of serious damage of toxicological significance. A NOAEL value of 500 mg/kg bw/day was assigned based on the presence of diuresis, representing a potential long-term adverse effect. Under Directive 67/548/EEC, the test material is not rated as R48 (Danger of serious damage to health by prolonged exposure).

Similarly, the test material is not rated for "Specific Target Organ Toxicity – Repeated Exposure" according to the CLP regulation (Regulation (EC) No. 1272/2008).



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**Aspiration hazard**

Due to partial or complete lack of data the classification is not possible. Although dihydromyrcenol is a low viscosity and mobile liquid with a kinematic viscosity of 5.03 mm<sup>2</sup>/s at 40°C, the chemical structure would indicate a low potential for surface activity. In addition, there is no evidence of aspiration toxicity for this material from either human experience or from animal toxicity data and it is not a member of a recognized category of materials having aspiration toxicity potential (i.e. hydrocarbons).

**Further information**

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
According to Regulation (EC) No 1272/2008, the substance is not considered to be CMR.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Product		Species	Test Results
2,6-DIMETHYL-7-OCTEN-2-OL (CAS 18479-58-8)			
Other	EC50	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 hours (respiration rate - nominal concentration - OECD 209)
<b>Aquatic</b>			
Algae	EC50	Algae	80 mg/l, 72 hours (based on growth rate - nominal concentration - OECD 201)
			65 mg/l, 72 hours (based on biomass - nominal concentration - OECD 201)
	LOEC	Algae	50 mg/l, 72 hours (nominal concentration - OECD 201)
	NOEC	Algae	25 mg/l, 72 hours (nominal concentration - OECD 201)
Crustacea	LC50	Daphnia magna	38 mg/l, 48 hours (nominal concentration - OECD 202)
	NOEC	Daphnia magna	9.5 mg/l, 21 day (OECD 211 conducted with a structurally related substance)
Fish	LC50	Oncorhynchus mykiss	27.8 mg/l, 96 hours (measured concentration - OECD 203 conducted with a structurally related substance)

**Persistence and degradability**

Readily biodegradable.  
After 28 days: 72% degradation (CO<sub>2</sub> production) – 100% degradation (Dissolved Organic Carbon) – OECD 301B – domestic activated sludge – non-adapted). 60% being surpassed within 10 days after reaching 10%.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

The adsorption coefficient of the substance was determined in a study conducted following the OECD 121 guideline:  
K<sub>oc</sub>: 177.83 at 35°C  
log K<sub>oc</sub>: 2.25 at 35 °C  
Taken with the high water solubility, this value is low enough to suggest that dihydromyrcenol will show limited adsorption to soil or sediment particulates, and will partition mainly to water (in the surface or ground water compartments).





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**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.

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### 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**

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.

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### 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.



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### 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 chemical

Yes

##### Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

#### 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 (SDWA)

Not regulated.

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

Issue date	10-02-2013
Revision date	07-11-2019
Version #	05
HMIS® ratings	Health: 2 Flammability: 2 Physical hazard: 0



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#### 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 the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

#### Revision information

Product and Company Identification: Vigon Values  
HAZARD(S) IDENTIFICATION: Supplemental information  
EXPOSURE CONTROLS/PERSONAL PROTECTION: Other  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
TOXICOLOGICAL INFORMATION: Respiratory sensitization  
TOXICOLOGICAL INFORMATION: Inhalation  
Regulatory Information: Risk Phrases - Labeling  
REGULATORY INFORMATION: California Proposition 65  
REGULATORY INFORMATION: Safe Drinking Water Act (SDWA)  
OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION:  
References