

# SAFETY DATA SHEET

## 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018  
Version # 03

Page 1 of 11  
Print Date: 08-31-2018

### 1. IDENTIFICATION

**Product Description:** ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL  
**CAS #** MIXTURE  
**Other means of identification**  
**Vigon Item #** 501200  
**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

Company

Vigon International, Inc.  
127 Airport Road  
E. Stroudsburg, PA 18301  
For information call: 570-476-6300  
Web Site: www.vigon.com

24 Hour Emergency Response Information

INFOTRAC (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**

<b>Company name</b>	Vigon International, Inc.	
<b>Address</b>	127 Airport Road E. Stroudsburg, PA 18301 United States	
<b>Telephone</b>	For information call:	570-476-6300
<b>Website</b>	www.vigon.com	
<b>E-mail</b>	Not available.	
<b>Emergency phone number</b>	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 1
<b>Health hazards</b>	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	Not classified.	

**Label elements**



**Signal word**

Danger



## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 2 of 11

Version # 03

Print Date: 08-31-2018

<b>Hazard statement</b>	Extremely flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.
<b>Storage</b>	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	After prolonged contact with highly porous materials, this product may spontaneously combust.
<b>Supplemental information</b>	100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
ACETALDEHYDE	acetic aldehyde acetic ethanol ethanal ethyl aldehyde	75-07-0	50 - < 75
ETHYL ALCOHOL	ethanol ethyl hydroxide 1-hydroxyethane methyl carbinol	64-17-5	25 - < 50

### 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.



## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 3 of 11

Version # 03

Print Date: 08-31-2018

<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>	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing.
<b>Indication of immediate medical attention and special treatment needed</b>	Not available.
<b>General information</b>	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

<b>Suitable extinguishing media</b>	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	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.
<b>Special protective equipment and precautions for firefighters</b>	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.
<b>Fire fighting equipment/instructions</b>	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.
<b>Specific methods</b>	Use water spray to cool unopened containers.
<b>General fire hazards</b>	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
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## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 4 of 11

Version # 03

Print Date: 08-31-2018

#### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

This product is miscible in water.

**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. Prevent product from entering drains. 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.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

#### 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. 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 under refrigeration (35-50°F). 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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
ACETALDEHYDE (CAS 75-07-0)	PEL	360 mg/m3
ETHYL ALCOHOL (CAS 64-17-5)	PEL	200 ppm 1900 mg/m3 1000 ppm



## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 5 of 11

Version # 03

Print Date: 08-31-2018

#### US. ACGIH Threshold Limit Values

Components	Type	Value
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ACETALDEHYDE (CAS 75-07-0)	Ceiling	25 ppm
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ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm
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#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
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ETHYL ALCOHOL (CAS 64-17-5)	REL	1900 mg/m <sup>3</sup>
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1000 ppm

1900 mg/m<sup>3</sup>

1000 ppm

**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, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes.

#### Skin protection

**Hand protection** Chemical resistant gloves.

**Other** Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Observe any medical surveillance requirements. 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.

## 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.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** < 95 °F (< 35 °C)

**Flash point** -35.0 °F (-37.2 °C) Closed Cup

**Evaporation rate** Not available.

## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 6 of 11

Version # 03

Print Date: 08-31-2018

<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
<b>Vapor pressure</b>	1783 hPa at 50 °C
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
Solubility (water)	Soluble
<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>	
Density	801.55 kg/m <sup>3</sup> at 20 °C
Explosive properties	Not explosive.
Molecular formula	Not applicable
Oxidizing properties	Not oxidizing.

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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>	Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.
<b>Incompatible materials</b>	Acids. Strong oxidizing agents. Alcohols. Ammonia. Phenols.
<b>Hazardous decomposition products</b>	No hazardous decomposition products if stored and handled as indicated.

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#### 11. TOXICOLOGICAL INFORMATION

##### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing.

##### Information on toxicological effects



## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 7 of 11

Version # 03

Print Date: 08-31-2018

#### Acute toxicity

Components	Species	Test Results
ETHYL ALCOHOL (CAS 64-17-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 15800 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Suspected of causing cancer.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Not listed.		
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>		
Not regulated.		
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>		
Not listed.		
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
Not available.		
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	

## 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.

Components	Species	Test Results
ACETALDEHYDE (CAS 75-07-0)		
Algae	Green algae (Pseudokirchneriella subcapitata)	> 100 mg/l, 24 hours
<b>Aquatic</b>		
Crustacea	EC50 Water flea (Daphnia magna)	> 39.4 - < 59.1 mg/l, 48 hours

## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 8 of 11

Version # 03

Print Date: 08-31-2018

Components	Species	Test Results
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 28 - < 34 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.	
<b>Bioaccumulative potential</b>	No data available.	
<b>Mobility in soil</b>	No data available.	
<b>Other adverse effects</b>	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

<b>Disposal instructions</b>	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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	Not established.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing group	I
Environmental hazards	No
Labels required	3

#### ADR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing group	I
Environmental hazards	No
Labels required	3

#### RID

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing Group	I
Environmental Hazards	No



## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 9 of 11

Version # 03

Print Date: 08-31-2018

**Labels required** 3  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### DOT

#### BULK

**UN number** 1993  
**Proper shipping name** FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)  
**Hazard class** 3  
**Packing group** I  
**Environmental hazards**  
    **Marine pollutant** No  
**Packaging exceptions** 150  
**Packaging bulk** 243  
**Labels required** 3

#### DOT

#### NON-BULK

**UN number** 1993  
**Proper shipping name** FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)  
**Hazard class** 3  
**Packing group** I  
**Environmental hazards**  
    **Marine pollutant** No  
**Packaging exceptions** 150  
**Packaging non bulk** 201  
**Labels required** 3

#### IATA

**UN number** 1993  
**UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)  
**Transport hazard class(es)** 3  
**Subsidiary class(es)** -  
**Packing group** I  
**Environmental hazards** No  
**Labels required** 3

#### IMDG

**UN number** 1993  
**UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (ACETALDEHYDE, ETHYL ALCOHOL)  
**Transport hazard class(es)** 3  
**Subsidiary class(es)** -  
**Packing group** I  
**Environmental hazards**  
    **Marine pollutant** No  
**Labels required** 3  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**SAFETY DATA SHEET**

**501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL**

Revision Date: 08-31-2018  
 Version # 03

Page 10 of 11  
 Print Date: 08-31-2018

ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID



**15. REGULATORY INFORMATION**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not available.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

<b>Classified hazard categories</b>	Flammable (gases, aerosols, liquids, or solids) Serious eye damage or eye irritation Carcinogenicity Specific target organ toxicity (single or repeated exposure)
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**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
ACETALDEHYDE	75-07-0	50 - < 75

**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.



## SAFETY DATA SHEET

### 501200 ACETALDEHYDE NATURAL 50% IN GRAIN ALCOHOL

Revision Date: 08-31-2018

Page 11 of 11

Version # 03

Print Date: 08-31-2018

#### US state regulations

##### California Proposition 65

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

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

**Issue date** 11-24-2015  
**Revision date** 08-31-2018  
**Version #** 03  
**HMIS® ratings** Health: 2\*  
Flammability: 4  
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 the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

#### Revision information

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