



Safety Data Sheet (SDS) Statement

Vigon International, Inc. recently changed our item numbering system. We are still in the process of transitioning our Safety Data Sheets to our new product code so in the interim we wanted to provide you with the below to avoid any confusion.

Product Description: OUD SYNTHETIC 10760 E

Old Vigon Code: O-01134

New Vigon Code: 502823

We apologize for the inconvenience. If you have any questions or concerns, please email regulatory@vigon.com.

Sincerely,

Felicia Perryman
Director of Quality

Date: September 23, 2015

SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 1 of 13

Version # 01

Print Date: 06-29-2015

1. IDENTIFICATION

Product Description:	oud SYNTHETIC 10760 E
CAS #	MIXTURE
Other means of identification	
Vigon Item #	502823
Recommended use	Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines.
Recommended restrictions	For Manufacturing Use Only
Company	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: 570-476-6300	
Web Site: www.vigon.com	

2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements

Signal word	Danger
Hazard statement	
H304	May be fatal if swallowed and enters airways.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement**Prevention**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.

Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 2 of 13

Version # 01

Print Date: 06-29-2015

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P331 Do NOT induce vomiting.

P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information 27.35% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 27.35% 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	%
HYDROGENATED METHYL ROSINATE		8050-15-5	20 - < 30
NEROLIDOL	3-Hydroxy-3,7,11-trimethyl-1,6,10-dodecatriene 3,7,11-TRIMETHYLDODECA-1,6,10-TRIEN-3-OL dodecatriene methyl vinyl homogeranyl carbinol	7212-44-4	2.5 - < 5
MYRRH RESINOID		8016-37-3	1 - < 2.5
2,6,6-TRIMETHYL-1,3- CYCLO HEXADIENYL-1 CARBALDEHYDE	2,3- dihydro-2,2,6-trimethyl benzaldehyde 1,3- cyclohexadiene-1-carboxaldehyde, 2,6,6-trimethyl- 3,4- didehydro-7-apo-b-caroten-7-al	116-26-7	0.1 < 0.5
9,12,15-OCTADECATRIENOIC ACID, (Z,Z,Z)-	octadeca-9,12,15-trienoic acid linolenic acid	463-40-1	0.1 < 0.5
FURFURAL	PYROCIC ALDEHYDE 2-Furancarboxaldehyde furan-2-carbaldehyde 2-Oxomethylfuran FURFUROL FURAL	98-01-1	0.1 < 0.5
Other components below reportable levels			60 - < 70

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.



SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 3 of 13

Version # 01

Print Date: 06-29-2015

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	Aspiration may cause pulmonary edema and pneumonitis.
Indication of immediate medical attention and special treatment needed	Not available.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, 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	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

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 4 of 13

Version # 01

Print Date: 06-29-2015

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.

The product is immiscible with water and will spread on the water surface.

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. Do not allow material to contaminate ground water system. 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

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Take precautionary measures against static discharges. Avoid breathing vapor.

Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

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

Components	Type	Value
FURFURAL (CAS 98-01-1)	PEL	20 mg/m ³ 5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
FURFURAL (CAS 98-01-1)	TWA	2 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
FURFURAL (CAS 98-01-1)	200 mg/l	Furoic acid, with hydrolysis	Urine	*

* - For sampling details, please see the source document.



SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 5 of 13

Version # 01

Print Date: 06-29-2015

Exposure guidelines

US - Tennessee OELs: Skin designation

FURFURAL (CAS 98-01-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

FURFURAL (CAS 98-01-1) Can be absorbed through the skin.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

FURFURAL (CAS 98-01-1) Can be absorbed through the skin.

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

FURFURAL (CAS 98-01-1) Skin designation applies.

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

FURFURAL (CAS 98-01-1) Can be absorbed through the skin.

US. OSHA Table Z-1-A (29 CFR 1910.1000)

FURFURAL (CAS 98-01-1) Can be absorbed through the skin.

Appropriate engineering controls Use explosion-proof ventilation equipment to stay below exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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 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 Not available.

Flash point > 200.0 °F (> 93.3 °C) Closed Cup

SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 6 of 13

Version # 01

Print Date: 06-29-2015

Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.2 mm Hg at 20 °C
Vapor density	Not available.
Relative density	1 at d 20/20
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Combustible IIIB estimated
Molecular formula	Not applicable
VOC (Weight %)	< 24 %

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	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	Prolonged inhalation may be harmful.
Skin contact	Causes mild skin irritation.
Eye contact	Causes mild eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 7 of 13

Version # 01

Print Date: 06-29-2015

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.

Components

Species

Test Results

FURFURAL (CAS 98-01-1)

Acute

Dermal

LD50

Rabbit

620 mg/kg

Inhalation

LC50

Rat

>= 1.63 ppm, 4 hours

Oral

LD50

Rat

100 mg/kg

HYDROGENATED METHYL ROSINATE (CAS 8050-15-5)

Acute

Oral

LD50

Rat

> 2000 mg/kg

NEROLIDOL (CAS 7212-44-4)

Acute

Dermal

LD50

Rabbit

> 5000 mg/kg

Oral

LD50

Rat

> 2610 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

ACGIH Carcinogens

FURFURAL (CAS 98-01-1)

A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

FURFURAL (CAS 98-01-1)

3 Not classifiable as to carcinogenicity to humans.



SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 8 of 13

Version # 01

Print Date: 06-29-2015

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful.
Further information	This mixture has not been subjected to full toxicological testing. According to available data on the constituents the health classification criteria are met.

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long lasting effects. This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are met.

Components		Species	Test Results
FURFURAL (CAS 98-01-1)			
Aquatic			
Algae	EC50	Algae	570 mg/l, 24 hours
Crustacea	LC50	Water flea (Daphnia magna)	29 mg/l, 24 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	13.4 - 19.3 mg/l, 96 hours
HYDROGENATED METHYL ROSINATE (CAS 8050-15-5)			
<i>Acute</i>			
Other	EL50	Selenastrum capricornutum (new name Pseudokirchnerella subca)	> 1000 mg/l, 72 hours OECD 201
Aquatic			
<i>Acute</i>			
Crustacea	EL50	Daphnia magna	> 100 mg/l, 48 hours OECD 202
Fish	LL50	Pimephales promelas	> 1000 mg/l, 96 hours OECD 203
NEROLIDOL (CAS 7212-44-4)			
Other	EC20	Activated sludge, industrial	180 mg/l, 0.5 hours OECD Guideline 209 aerobic
Aquatic			
Algae	EC50	Green algae (Desmodesmus subspicatus)	2 mg/l, 72 hours
	NOEC	Green algae (Desmodesmus subspicatus)	0.44 mg/l, 72 hours



SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 9 of 13

Version # 01

Print Date: 06-29-2015

Components		Species	Test Results
Crustacea	EC50	Daphnia magna	0.51 mg/l, 48 hours Directive 79/831/EEC. The details of the toxic effect relate to the nominal concentration
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	1.3 - 1.58 mg/l, 96 hours The details of the toxic effect relate to the nominal concentration
	NOEC	Fathead minnow (<i>Pimephales promelas</i>)	0.64 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

FURFURAL 0.41

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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

ADN

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NEROLIDOL)
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. (NEROLIDOL)
Transport hazard class(es)	9

SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 10 of 13

Version # 01

Print Date: 06-29-2015

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. (NEROLIDOL)
 Transport hazard class(es) 9
 Subsidiary class(es) -
 Packing group III
 Environmental hazards Yes
 Labels required 9

DOT

BULK

UN number 3082
 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NEROLIDOL)
 Hazard class 9
 Packing group III
 Environmental hazards
 Marine pollutant Yes
 Special provisions 8, 146, 335, IB3, T4, TP1, TP29
 Packaging exceptions 155
 Packaging bulk 241

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

UN number 3082
 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NEROLIDOL)
 Transport hazard class(es) 9
 Subsidiary class(es) -
 Packing group III
 Environmental hazards
 Marine pollutant Yes
 Labels required 9
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 11 of 13

Version # 01

Print Date: 06-29-2015

ADN; ADR; DOT BULK; IMDG; RID



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.

CERCLA Hazardous Substance List (40 CFR 302.4)

FURFURAL (CAS 98-01-1) Listed.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No



SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 12 of 13

Version # 01

Print Date: 06-29-2015

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.

US state regulations

US. Massachusetts RTK - Substance List

FURFURAL (CAS 98-01-1)

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

FURFURAL (CAS 98-01-1) Skin designation applies.

US. New Jersey Worker and Community Right-to-Know Act

FURFURAL (CAS 98-01-1)

US. Pennsylvania Worker and Community Right-to-Know Law

FURFURAL (CAS 98-01-1)

US. Rhode Island RTK

FURFURAL (CAS 98-01-1)

US. California Proposition 65

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

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



SAFETY DATA SHEET

502823 OUD SYNTHETIC 10760 E

Revision Date: 06-29-2015

Page 13 of 13

Version # 01

Print Date: 06-29-2015

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

Issue date	06-29-2015
Revision date	06-29-2015
Version #	01
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0

Disclaimer

Vigon 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, 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.