

501272 MENTHYL ACETATE NATURAL

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1. IDENTIFICATION

Product Description:	MENTHYL ACETATE NATURAL	
CAS #	2623-23-6	
FEMA Number	2668	
Other means of identification Vigon Item #	501272	
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 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

Flammable liquids	Category 4
Skin corrosion/irritation	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 2
Warning	
Combustible liquid.	
Causes mild skin irritation.	
Toxic to aquatic life with long lasting effects.	
	Flammable liquids Skin corrosion/irritation Hazardous to the aquatic environment, long-term hazard Warning Combustible liquid. Causes mild skin irritation.

Precautionary statement

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Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
Response	
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

Storage



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P403 + P235	Store in a well-ventilated place. Keep cool.		
Disposal			
P501	Dispose of contents/container in accordance with lo	ocal/regional/national/in	ernational regulations.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		
3. COMPOSITION/INFORM	IATION ON INGREDIENTS		
Substances			
Chemical name	Common name and synonyms	CAS number	%
MENTHYL ACETATE LAEVO	(5- methyl-2-propan-2-ylcyclohexyl) acetate laevo-2-iso propyl-5-methyl cyclohexan-1-ol acetate (1R-(1alpha,2beta,5alpha))-5- methyl-2-(1-methyl ethyl) acetate	2623-23-6	100
4. FIRST-AID MEASURES			
Inhalation	If breathing is difficult, remove to fresh air and keep For breathing difficulties, oxygen may be necessary 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	Direct contact with eyes may cause temporary irritation. Mild skin irritation.		
Indication of immediate medical attention and special treatment needed	Not available.		
General information	Ensure that medical personnel are aware of the ma	aterial(s) involved, and ta	ake precautions to

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 retar face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structu

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.



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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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.
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. Retain and dispose of contaminated wash water. Avoid release to the environment. 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. 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.
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	No exposure limits noted for ingredient(s).
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.



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Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Chemical resistant gloves.
Other	Not available.
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.

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	Not available.
Flash point	198.0 °F (92.2 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explo	sive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.05 mm Hg at 20 °C
Vapor density	6.9
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	444.2 - 446 °F (229 - 230 °C)



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Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Combustible IIIA estimated
Molecular formula	C12H22O2
Molecular weight	198.31 g/mol
Specific gravity	0.92 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	Avoid heat, sparks, open flames and other ignition sources. 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 e	exposure	
Inhalation	No adverse effects due to inhala	tion are expected.
Skin contact	Causes mild skin irritation.	
Eye contact	Direct contact with eyes may cau	use temporary irritation. Causes mild eye irritation.
Ingestion	Expected to be a low ingestion h	azard.
Symptoms related to the physical, chemical and toxicological characteristics	Mild skin irritation.	
Information on toxicological eff	ects	
Acute toxicity		
Product	Species	Test Results
MENTHYL ACETATE LAEVO	(CAS 2623-23-6)	
Acute		
Dermal		
<i>Dermal</i> LD50	Rabbit	> 5000 mg/kg
	Rabbit	> 5000 mg/kg

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

Causes mild skin irritation.



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Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
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		
OSHA Specifically Regulate	d 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	Not available.	
12. ECOLOGICAL INFOR	MATION	

Ecotoxicity	Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.
Persistence and degradability	No data is available on the degradability of this product.
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	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 UN proper shipping name



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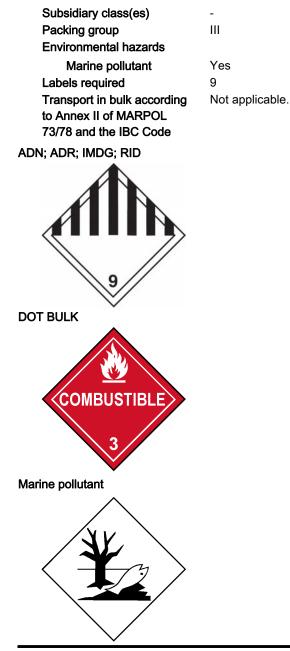
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Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	
Environmental hazards	Yes
Labels required	9
ADR	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MENTHYL ACETATE LAEVO)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9
RID	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MENTHYL ACETATE LAEVO)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	
Environmental hazards	Yes
Labels required	9
DOT	
BULK	
UN number	NA1993
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (MENTHYL ACETATE LAEVO)
Hazard class	Combustible liq
Packing group	
Environmental hazards	
Marine pollutant	Yes
Packaging exceptions	150
Packaging bulk	241
Labels required	None
DOT	
NON-BULK	
Not regulated as dangerous g	loods.
ΙΑΤΑ	
Not regulated as dangerous g	loods.
IMDG	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MENTHYL ACETATE LAEVO)
Transport hazard class(es)	9



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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.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.



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US. OSHA Specifically Regula	ated Substances (29 CFR 1910.1001-1050)
Not listed.	
SARA 304 Emergency release	e notification
Not regulated.	
OSHA Specifically Regulated	Substances (29 CFR 1910.1001-1050)
Not listed.	
TSCA Section 12(b) Export No	otification (40 CFR 707, Subpt. D)
Not regulated.	
Superfund Amendments and Reau	thorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - Yes Pressure Hazard - No
	Reactivity Hazard - No
SARA 302 Extremely hazardo	-
Not listed.	
SARA 311/312 Hazardous chemical	Yes
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.
US state regulations	
US. Massachusetts RTK - Sub	ostance List
Not regulated.	
US. New Jersey Worker and C	Community Right-to-Know Act
Not listed.	
US. Pennsylvania Worker and	Community Right-to-Know Law
Not listed.	
US. Rhode Island RTK	
Not regulated.	
US. California Proposition 65	
	n 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.	
International Inventories	
Country(s) or region	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS)



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Country(s) or region	Inventory name	On inventory (yes/no)*
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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
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).

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

Issue date	11-26-2015
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Version #	01
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
Disclaimer	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.