

501432 VANILLIN NATURAL

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1. IDENTIFICATION			
Product Description:	VANILLIN NATURAL		
CAS #	121-33-5		
FEMA Number	3107		
Other means of identification Vigon Item #	501432		
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 On	ly	
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: 570-476-630	00		
Web Site: www.vigon.com			
Manufacturer/Importer/Supplier/I Manufacturer	Distributor information		
Company name Address	Vigon International, Inc. 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 1-800-535-5053 1-352-323-3500	(ACCT# 78928); WITHIN THE U.S.A. OUTSIDE THE U.S.A.	
2. HAZARD(S) IDENTIFIC Physical hazards	Not classified.		

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2
Environmental hazards	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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Signal word	Warning
Hazard statement	Harmful if swallowed. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection.
Response	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	WARNING! May form combustible dust concentrations in air. Avoid breathing dust.
Supplemental information	100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%	
VANILLIN	 4-hydroxy-3-methoxybenzaldehyde benzaldehyde, 4-hydroxy-3-methoxy- 4 - formyl-2-methoxybenzaldehyde p- hydroxy-m-methoxybenzaldehyde 2- methoxy-4-formyl phenol 3- methoxy-4-hydroxybenzaldehyde vanillic aldehyde vanillaldehyde 	121-33-5	100	

4. FIRST-AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.
Indication of immediate medical attention and special treatment needed	Not available.



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General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.	
5. FIRE-FIGHTING MEASL	IRES	
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	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. 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.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Sweep up and place in a clearly labeled container for chemical waste. Wash contaminated area with water. Use only non-sparking tools. Avoid the generation of dusts during clean-up. 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.
	Never return spills in original containers for re-use.
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 handlingTake precautionary measures against static discharges when there is a risk of dust explosion.
Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure
that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when
subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as
electrical grounding and bonding, or inert atmospheres. Assume that this material is capable of
producing a dust explosion if ignited as a dust cloud.
Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary
measures against static discharges. Avoid breathing vapor. Avoid breathing dust. Avoid contact
with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.



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Conditions for safe storage,
including any incompatibilitiesKeep 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. Workplace Environmenta	I Exposure Level (WEEL) Guides		
Material	Туре	Value	
VANILLIN (CAS 121-33-5)	TWA	10 mg/m3	
Biological limit values	No biological exposure limits noted	for the ingredient(s).	
Appropriate engineering controls	Use only appropriately classified electrical equipment and powered industrial trucks. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use explosion-proof ventilation equipment to stay below exposure limits.		
Individual protection measures, su Eye/face protection	ch as personal protective equipment Wear safety glasses with side shield	ls (or goggles).	
Skin protection Hand protection	Chemical resistant gloves.		
Other	Not available.	Not available.	
Respiratory protection	Dust mask.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, suc 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	Powder\Crystal.
Form	Powder. Crystalline powder.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	176 - 177.8 °F (80 - 81 °C)
Initial boiling point and boiling	543.2 - 545 °F (284 - 285 °C) 101.325 kPa
range	
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.



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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	0.002 mm Hg at 25 °C
Vapor density	5.2
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	1.37
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.06 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C8-H8-O3
Molecular weight	152.15 g/mol
Oxidizing properties	Not oxidizing.

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	Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Minimize dust generation and accumulation.
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	Irritating to respiratory system.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Causes serious eye irritation.



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Ingestion	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. Dusts may irritate the respiratory tract, skin and eyes.		
Information on toxicological effect	ts		
Acute toxicity	Harmful if swallowed.		
Product	Species	Test Results	
VANILLIN (CAS 121-33-5)			
Acute			
Dermal			
LD50	Rabbit	> 5010 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Food intake (animal). Gastrointestinal:Peritonitis.	
Oral			
LD50	Rat	1580 mg/kg	
* Estimates for product may	be based on additional component data not	shown.	
Skin corrosion/irritation	Eyes - rabbit - Irritating to eyes 72 h		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	Maximisation Test - guinea pig - Directiv sensitisation.	Maximisation Test - guinea pig - Directive 67/548/EEC, Annex V, B.6 Does not cause skin	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity			
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1050)		
Not regulated. US. National Toxicology Pro	gram (NTP) Report on Carcinogens		
Not listed.			
	lated Substances (29 CFR 1910.1001-1050))	
Not available.			
Reproductive toxicity	This product is not expected to cause re	productive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		



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Aspiration hazard	Not an as	piration hazard.	
12. ECOLOGICAL INFOR	MATION		
Ecotoxicity	Harmful to aquatic life with long lasting effects.		
Product		Species	Test Results
VANILLIN (CAS 121-33-5)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales prom	nelas) >53 - < 61.3 mg/l, 96 hours
		Leuciscus idus (Golden orfe)	123 mg/l, 96 hours
Other	EC50	Activated Sludge	1800 mg/l, 49 hours
* Estimates for product may	be based on	additional component data not shown.	
Persistence and degradability		Sturm test, OECD 301-B, (CO2) Results: Readily biodegradable 77.6 %	
Bioaccumulative potential			
Partition coefficient n-octan 1.37	ol / water (log	Kow)	
Mobility in soil	No data a	vailable.	
Other adverse effects			e depletion, photochemical ozone creation ential) are expected from this component.
13. DISPOSAL CONSIDE	RATIONS		
Disposal instructions	into sewe used cont	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 i	n accordance with all applicable regulatio	ns.
Hazardous waste code	Not estab	lished.	
Waste from residues / unused products		ntainers or liners may retain some produc ed of in a safe manner (see: Disposal ins	ct residues. This material and its container must tructions).
Contaminated packaging			ue, follow label warnings even after container is approved waste handling site for recycling or

14. TRANSPORT INFORMATION

ADN

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.



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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.

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 1910.1001-1050)

Not regulated.

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

Not regulated.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

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.



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Safe Drinking Water Act

(SDWA)

Australia

International Inventories Country(s) or region

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Not regulated.

Inventory name
On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)
Domestic Substances List (DSL)
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)	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	12-27-2016
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Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0



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Disclaimer Vigon International, Inc. cannot anticipate all conditions under which this information as product, or the products of other manufacturers in combination with its product, may be the user's responsibility to ensure safe conditions for handling, storage and disposal of product, and to assume liability for loss, injury, damage or expense due to improper us information in the sheet was written based on the best knowledge and experience curr available. The above information relates only to this product and not to its use in comb any other material or any particular process and is designed only as guidance for the shandling, use, processing, storage, transportation, disposal, and should not be conside guarantee or quality specification. The above information is based on data provided by collected from recognized sources such as distributors, manufacturers, and technical gis considered to be accurate to the best of Vigon's knowledge as of the date of this door the responsibility of the user to review all safety information about this product and det safety and suitability in their own processes and operations. Appropriate warnings and handling procedures should be provided to all handlers and users, taking into account use and the specific conditions and factors relating to such use in accordance with all a laws and regulations.	used. It is the e. The ently nation with afe red as a rand roups and ument. It is ermine its safe he intended
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Revision information

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