Product Specification

Product Name: JASMIN 231

Vigon Code: 502804

CAS Number: MIXTURE

FEMA Number: N/A

Characteristic:	Specification:	
Odor	FLORAL ODOR.	
Refractive Index (@20c)	1.4960	1.5020
Specific Gravity (@25c)	0.9940	1.0040
Color/appearance	PALE YELLOW TO PALE GREEN LIQUID.	

Additional Product Information:

Flash Point: 196 °F

Shelf Life: 18 Months

Storage Conditions: Stable when stored in its original package, tightly sealed in a cool (46-90ºF) and dry location out of direct heat and light.

Effective Date: May 5, 2006

Printed Date: August 31, 2023

Vigon International, LLC.
127 Airport Road East Stroudsburg, PA 18301-9629 USA | Tel: +1 570-476-6300 | Fax: +1 570-476-1110 | Email: regulatory@vigon.com | Web: vigon.com

SAFETY DATA SHEET

502804 JASMIN 231

1. IDENTIFICATION

Product Description: **JASMIN 231**

CAS # MIXTURE

Other means of identification

Vigon Item # 502804

Recommended use Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA 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

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 1-800-535-5053 1-352-323-3500	(ACCT# 78928); WITHIN THE U.S.A. OUTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazards	Flammable liquids	Category 4
Health hazards	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Reproductive toxicity	Category 2
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements

Signal word Danger

Hazard statement	Combustible liquid. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	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. Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	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. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%
BENZYL ACETATE	PHENYL METHYL ACETATE a-acetoxytoluene benzenemethanol acetate benzenemethanol ethanoate benzyl ethanoate	140-11-4	20 - < 30
HYDROXYCITRONELLAL	7-HYDROXY-3,7-DIMETHYL-OCTANAL HYDROXYCITRONELLAL Octanal, 7-hydroxy-3,7-dimethyl- HYDROXY-CITRONELLAL	107-75-5	20 - < 30
PHENYL ETHYL ALCOHOL	BENZYL CARBINOL 2-Phenylethanol	60-12-8	10 - < 15
BENZYL ALCOHOL	ALPHA-HYDROXYTOLUENE PHENYLCARBINOL PHENYLMETHANOL ALPHA-TOLUENOL Benzenemethanol phenylmethanol Benzyl carbinol	100-51-6	5 - < 7.5
CINNAMIC ALCOHOL	3-PHENYL-2-PROPEN-1-OL STYRYL CARBINOL 1- phenyl prop-1-en-3-ol 3- phenyl allyl alcohol	104-54-1	5 - < 7.5

Chemical name	Common name and synonyms	CAS number	%
PHENYL ETHYL ACETATE	benzyl carbinyl acetate beta- phenyl ethyl acetate phenethyl ethanoate 2-PHENYLETHYL ACETATE	103-45-7	5 - < 7.5
LINALOOL	2,6-DIMETHYL-2,7-OCTADIENE-6-OL 1,6-Octadien-3-ol, 3,7-dimethyl- 3,7-Dimethylocta-1,6-dien-3-ol LINALYL ALCOHOL	78-70-6	2.5 - < 5
GERANIOL	3,7-DIMETHYL-2,6-OCTADIEN-1-OL (2E)-3,7- dimethylocta-2,6-dien-1-ol LEMONOL GERANYL ALCOHOL	106-24-1	1 - < 2.5
BENZYL BENZOATE	benzyl benzene carboxylate phenyl methyl benzoate BENZYL PHENYL FORMATE	120-51-4	0.1< 0.5
CITRONELLOL	3,7-DIMETHYL-6-OCTEN-1-OL 6-Octen-1-ol, 3,7-dimethyl- 2,6- dimethyl-2-octen-8-ol	106-22-9	0.1< 0.5
CRESOL PARA	PARA-CRESYLIC ACID 1-Hydroxy-4-methylbenzene METHYL PHENOL (CRESOL, CRESYLIC ACID) p-METHYLHYDROXYBENZENE P-CRESYLIC ACID 4-Hydroxytoluene PARAMETHYL PHENOL 4-METHYL PHENOL	106-44-5	0.1< 0.5
CRESYL METHYL ETHER PARA	1- methoxy-4-methylbenzene METHYL P-CRESOL 4-Methylanisole methyl p-tolyl ether 4- methoxytoluene	104-93-8	0.1< 0.5
DIPENTENE	p- mentha-1,8-diene D,L- limonene 1- methyl-4-prop-1-en-2-ylcyclohexene	138-86-3	0.1< 0.5
GERANYL ACETATE	geranyl ethanoate 2,6-DIMETHYL-2,6-OCTADIENE-8-YL ACETATE 3,7-DIMETHYL-2-TRANS-6-OCTADIENY L ACETATE [(2E)-3,7- dimethylocta-2,6-dienyl] acetate	105-87-3	0.1< 0.5
NEROL	(2Z)-3,7- dimethylocta-2,6-dien-1-ol	106-25-2	0.1< 0.5

Chemical name	Common name and synonyms	CAS number	%
CINNAMIC ALDEHYDE	CINNAMAL 3- phenylprop-2-enal PHENYL ACROLEIN benzylidene acetaldehyde 3- phenyl acryl aldehyde	104-55-2	0< 0.1
ISOEUGENOL	2- methoxy-4-prop-1-en-2-ylphenol 2-Methoxy-4-(1-propenyl)phenol; 4-Hydroxy-3-methoxy-1-propenylbenzene , Isoeugenol Phenol, 2-methoxy-4-(1-propen-1-yl)-	97-54-1	0< 0.1
Other components below reportable levels			10 - < 20

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. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

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.
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. 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. 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

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

Components	Type	Value
CRESOL PARA (CAS 106-44-5)	PEL	22 mg/m3 5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
BENZYL ACETATE (CAS 140-11-4)	TWA	10 ppm	
CRESOL PARA (CAS 106-44-5)	TWA	20 mg/m3	Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
CRESOL PARA (CAS 106-44-5)	REL	10 mg/m3
		2.3 ppm
	TWA	10 mg/m3
		2.3 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m3
		10 ppm
DIPENTENE (CAS 138-86-3)	TWA	165.5 mg/m3
		30 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. Contaminated work clothing should not be allowed out of the workplace.

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	196.0 °F (91.1 °C) Closed Cup
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	< 0.1 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	
Explosive properties	Not explosive.
Flammability class	Combustible IIIA estimated
Oxidizing properties	Not oxidizing.
VOC	< 32 %

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 exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
BENZYL ACETATE (CAS 140-11-4)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
BENZYL ALCOHOL (CAS 100-51-6)		
Acute		
Inhalation		
LC50	Rat	11 mg/l, 8 Hours
BENZYL BENZOATE (CAS 120-51-4)		
Acute		
Dermal		
LD50	Rat	4000 mg/kg
CINNAMIC ALCOHOL (CAS 104-54-1)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	2000 mg/kg
CINNAMIC ALDEHYDE (CAS 104-55-2)		
Acute		
Dermal		
LD50	Rabbit	0.59 ml/kg
Oral		
LD50	Rat	2200 mg/kg

Components	Species	Test Results
CITRONELLOL (CAS 106-22-9)		
Acute		
Dermal		
LD50	Rabbit	2650 mg/kg
Oral		
LD50	Rat	3450 mg/kg
CRESOL PARA (CAS 106-44-5)		
Acute		
Dermal		
LD50	Rabbit	301 mg/kg
Inhalation		
LC50	Rat	> 710 mg/m3, 1 hours
Oral		
LD50	Rat	207 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Ulceration or bleeding from stomach.
CRESYL METHYL ETHER PARA (CAS 104-93-8)		
Acute		
Dermal		
LD50	Rabbit	> 4850 mg/kg (OECD Test Guideline 402)
Oral		
LD50	Rat	1920 mg/kg (OECD Test Guideline 401)
DIPENTENE (CAS 138-86-3)		
Acute		
Dermal		
LD50	Rabbit	5 g/kg
Oral		
LD50	Rat	5 g/kg
GERANIOL (CAS 106-24-1)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	3600 mg/kg

Components	Species	Test Results
HYDROXYCITRONELLAL (CAS 107-75-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg OECD 402: limit
Oral		
LD50	Rat	> 5000 mg/kg OECD 401: limit
ISOEUGENOL (CAS 97-54-1)		
Acute		
Dermal		
LD50	Rabbit	1900 mg/kg
Oral		
LD50	Rat	1560 mg/kg
LINALOOL (CAS 78-70-6)		
Acute		
Oral		
LD50	Rat	2790 mg/kg
NEROL (CAS 106-25-2)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	4500 mg/kg
PHENYL ETHYL ACETATE (CAS 103-45-7)		
Acute		
Dermal		
LD50	Rabbit	6210 mg/kg
Inhalation		
LC50	Rat	> 500 mg/m3
Oral		
LD50	Rat	5000 mg/kg
PHENYL ETHYL ALCOHOL (CAS 60-12-8)		
Acute		
Dermal		
LD50	Rabbit	2500 mg/kg
Oral		
LD50	Rat	1610 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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 Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Not available.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

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 Harmful 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
BENZYL ACETATE (CAS 140-11-4)			
Aquatic			
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	> 3.48 - < 4.6 mg/l, 96 hours
BENZYL ALCOHOL (CAS 100-51-6)			
Aquatic			
Crustacea	EC50	Daphnia magna	55 mg/l, 24 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	460 mg/l, 96 hours

Components		Species	Test Results
CITRONELLOL (CAS 106-22-9)			
Aquatic			
Acute			
Algae	EC50	Algae	2.4 mg/l, 72 hours
Crustacea	EC50	Daphnia	17 mg/l, 48 hours
Fish	LC50	Leuciscus idus (Golden orfe)	> 10 - < 22 mg/l, 96 hours
CRESOL PARA (CAS 106-44-5)			
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	1.4 mg/l, 48 hours
Fish	LC50	Fish (Lepidocephalichthyes guntea)	> 16.42 - < 26.86 mg/l, 24 hours
		Oncorhynchus mykiss (reported as Salmo gairdneri)	7.9 mg/l, 96 hours
CRESYL METHYL ETHER PARA (CAS 104-93-8)			
Aquatic			
Acute			
Algae	EC50	Algae	320 mg/l, 72 hours
		Green algae (Desmodesmus subspicatus)	500 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia obtusa)	27 mg/l, 48 hours (OECD Test Guideline 202)(OECD Test Guideline 202)
Fish	LC50	Leuciscus idus (Golden orfe)	68.2 mg/l, 96 hours
Other	EC50	Bacterium	5300 mg/l, 0.5 hours
DIPENTENE (CAS 138-86-3)			
Aquatic			
Fish	LC50	Carp (Leuciscus idus melanotus)	34 mg/l, 48 hours
GERANIOL (CAS 106-24-1)			
Other	EC50	Activated sludge of a predominantly domestic sewage	70 mg/l, 0.5 hours
Aquatic			
Algae	EC50	Green algae (Desmodesmus subspicatus)	13.1 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	10.8 mg/l, 48 hours
Fish	LC50	Danio rerio	22 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	> 2.7 - < 3.8 mg/l, 96 hours

Components		Species	Test Results
GERANYL ACETATE (CAS 105-87-3)			
Aquatic			
Algae	EC50	Green algae (Chlamydomonas variabilis)	3.72 mg/l, 72 hours OECD Guideline 201 static. The statement of the toxic effect relates to the analytically determined concentration.
Crustacea	EC50	Daphnia magna	14.1 mg/l, 48 hours Directive 84/449/EEC, C.2 static. The statement of the toxic effect relates to the analytically determined concentration.
Fish	LC50	Fish	68.12 mg/l, 96 hours Cyprinus carpio. OECD Guideline 203 static The product has not been tested. The statement has been derived from products of a similar structure or composition.
Other	EC10	Bacterium	> 10000 mg/l, 0.5 hours DIN 38412 Part 27 (draft) aquatic. The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.
LINALOOL (CAS 78-70-6)			
Other	EC10	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 hours
Aquatic			
Algae	EC50	Green algae (Chlamydomonas variabilis)	88.3 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.
Crustacea	EC50	Daphnia magna	20 mg/l, 48 hours DIN 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.
Fish	LC50	Ide, silver or golden orfe (Leuciscus idus)	> 22 - < 46 mg/l, 96 hours DIN 38412 Part 15 static. The details of the toxic effect related to the nominal concentration.
	LC50-R	Fish	27.8 mg/l, 96 hours
NEROL (CAS 106-25-2)			
Acute			
Algae	EC50	Green algea (Pseudokirchneriella subcapitata)	9.54 mg/l, 72 hours

Components		Species	Test Results
			2.16 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	32.4 mg/l, 48 hours
Fish	LC50	Danio rerio	20.3 mg/l, 96 hours

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

GERANIOL	> 90 % OECD 301A (new version)(aerobic), activatied sludge, domestic DOC reduction, Readily biodegradable (according to OECD criteria)

Percent degradation (Aerobic biodegradation-ready)

LINALOOL	> 60 - < 70 %, Readily biodegradable (according to OECD criteria). Result: OECD 301D; EEC 92/69, C4-E (aerobic) Test Duration: 28 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZYL ACETATE	1.96
BENZYL ALCOHOL	1.1
BENZYL BENZOATE	3.97
CRESOL PARA	1.94
CRESYL METHYL ETHER PARA	2.66
DIPENTENE	4.232
LINALOOL	2.97, (OECD Guideline 107)
PHENYL ETHYL ALCOHOL	1.36

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

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.

14. TRANSPORT INFORMATION

ADN

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

DOT

BULK

UN number	NA1993
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (DIPENTENE, CRESYL METHYL ETHER PARA)
Hazard class	Combustible liq
Packing group	III
Environmental hazards	
Marine pollutant	No
Packaging exceptions	150
Packaging bulk	242
Labels required	None

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 1910.1001-1052)

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.

SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Serious eye damage or eye irritation Respiratory or skin sensitization Reproductive toxicity

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

California Proposition 65

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

Not listed.

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

Issue date	11-20-2015
Revision date	03-28-2018
Version #	04
HMIS® ratings	Health: 3* Flammability: 2 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

IDENTIFICATION: Recommended restrictions
HAZARD(S) IDENTIFICATION: Prevention
HAZARD(S) IDENTIFICATION: Response
COMPOSITION/INFORMATION ON INGREDIENTS: Component information
EXPOSURE CONTROLS/PERSONAL PROTECTION: Appropriate engineering controls
Physical & Chemical Properties: Multiple Properties
TOXICOLOGICAL INFORMATION: Carcinogenicity
TOXICOLOGICAL INFORMATION: Inhalation
REGULATORY INFORMATION: California Proposition 65
OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION: References
Material Attributes & Uses; Experimental Data: Material Attributes

Food Grade Certification

Product Name: JASMIN 231

Vigon Code: 502804

FEMA #: N/A

Vigon International, LLC. certifies that the above ingredient is **not** food grade.

Vigon International, LCC. may terminate this certification at any time upon written notice in which this certification shall be null and void as to any material supplied after termination of the certification.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Allergen/Sensitive Agents Identification Sheet

Product Name: JASMIN 231

Vigon Code: 502804

* A check mark (✔) indicates the Allergen/Sensitive Agent is present. If blank it means that there is no Allergen/Sensitive present.

ALLERGEN/SENSITIVE AGENTS	*
CORN & CORN PRODUCTS Includes modified starch, hydrolyzed protein,sweeteners,sugars, spice carriers	
EGG & EGG PRODUCTS liquid and powders	
FISH Includes any and all species of fresh and salt water fish	
GARLIC Dehydrated, powdered, granules, and flakes	
GLUTEN Wheat, rye, barley, oats, flour, etc.	
MILK & DAIRY PRODUCTS Includes whey, lactose, cheese, casein, spice carriers, milk, cream, etc.	
MONOSODIUM GLUTAMATE	
PEANUTS, PEANUT OIL & PEANUT DERIVED ITEMS Peanut meal, flour & ground nuts, szechwan sauce, mandelona nuts, etc.	
SESAME SEEDS & SESAME OIL	
CRUSTACEANS Shrimp, lobster, rock lobster, crab, crayfish, and products made from them	
MOLLUSKS Clams, mussels, oysters, scallops, and products made from them	
SOY Includes soya powder, protein, oil, lecithin, tofu	
SULFITES Includes sulfur dioxide, sodium dithionite, chemicals that lists sulfite, etc.	
TREE NUTS Includes almonds, beechnuts, bazil nuts, nutmeg, cashews, chestnuts, etc.	
WHEAT Includes hydrolyzed wheat protein, flour, gluten flour, starches	
MUSTARD & MUSTARD OIL	
LUPIN	
CELERY	

Vigon International, LLC. follows Good Manufacturing Practices and has implemented HACCP systems. Our personnel are trained on the proper handling of allergenic materials.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

GMO Status Statement

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. declares that the product listed above is not derived from or produced using genetically modified organisms or their derivatives.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Vigon International, LLC.
127 Airport Road East Stroudsburg, PA 18301-9629 USA | Tel: +1 570-476-6300 | Fax: +1 570-476-1110 | Email: regulatory@vigon.com | Web: vigon.com

Nutritional Statement

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. certifies that, to the best of our knowledge, the product listed above does not contribute to the nutritional value of flavors due to their extremely low usage levels and therefore falls under the nutritional labeling exemption defined in Section 101.9(a) and (j) of Title 21 of the Code of Federal Regulations.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Irradiation and Sewage Sludge Statement

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. declares that the product listed above has ***not*** been:

a) Exposed to Ionizing Radiation
b) Derived from Sewage Sludge
c) Treated with Ethyl Oxide

Vigon International, LLC. may terminate this statement at any time upon written notice in which this statement shall be null and void as to any material supplied after termination of the statement.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Heavy Metals and Pesticide Statement

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. declares that, to the best of our knowledge and belief, all ingredients in the product listed above are listed as being generally recognized as safe (GRAS) by the Food and Drug administration (FDA) when used in accordance with the FDA's good manufacturing practices (GMP) and contain no residues of heavy metals and pesticides in excess of tolerances set by the FDA and the Environmental Protection Agency (EPA).

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Stabilizer Statement

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. declares that, to the best of our knowledge that the product listed above has been treated with:

Stabilizer(s)	Percentage
TOCOPHEROLS	**0.0019**

Vigon International, LLC. may terminate this statement at any time upon written notice in which this statement shall be null and void as to any material supplied after termination of the statement.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Continuing Product Guarantee

Product Name: JASMIN 231

Vigon Code: 502804

In accordance with the regulations promulgated under the Federal Food, Drug, and Cosmetic Act, Vigon International, LLC. hereby provides continuing guarantee for the item listed above.

The article(s) comprising each shipment or other delivery hereafter made by Vigon International, LLC. is hereby guaranteed, as of the date of shipment or delivery, to be, on such date, not adulterated or misbranded within the meaning of the Federal Food, Drug, and Cosmetic Act, and not an article which may not, under the provisions of section 404, 505, or 512 of the act, be introduced into interstate commerce.

The guarantee herein given shall be a continuing guarantee and shall remain in full force and effect until revoked in writing by the undersigned. This guarantee shall not limit or preclude the operation and effect of any and all provisions of any agreement(s) under which the articles covered by this guarantee are sold, and the provisions of such agreement(s) shall govern in the event of any conflict or inconsistency herewith. Supplier's liability for breach of this guarantee shall in no event exceed the value of such of the articles of the supplier shipped to or on the order of Purchaser hereunder as may fail to comply with this guarantee.

This guarantee shall be void and of no effect in any instance where the particular use by Purchaser of any article to which this guarantee would otherwise apply is a use which is not in accordance with the requirements of the Federal Food, Drug and Cosmetic Act. Any and all prior guarantees and/or indemnity agreements heretofore given by supplier, are hereby revoked.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Dietary Preferences & Restrictions

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. certifies that the product listed above is suitable for consumption by:

Vegans Do not eat meat, poultry, fish/seafood,eggs,dairy products, honey	
Lacto-Vegetarians Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products	
Ovo-Vegetarians Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs	
Vegetarians Do not eat meat, poultry, fish/seafood, but do eat dairy products and eggs	

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Animal Testing Statement

Product Name: JASMIN 231

Vigon Code: 502804

Vigon International, LLC. is not in the practice of performing or commissioning animal testing on its finished products and actively evaluates the ingredients of its products through non-animal testing methods and through computational (predictive) toxicology programs.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Nanomaterials

Product Name: JASMIN 231

Vigon Code: 502804

We hereby confirm, to the best of our knowledge, that the above referenced product has not been formulated with engineered nanomaterials.

"Engineered nanomaterial" means any intentionally producted material that has one or more dimensions of the order of 100 nm or less or that is composed of discrete functional parts, either internally or at the surface, many of which have one or more dimensions of the order of 100 nm or less, including structures, agglomerates or aggregates, which may have a size above the order of 100nm but retain properties that are characteristic of the nanoscale.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Residual Solvents

Product Name: JASMIN 231

Vigon Code: 502804

Based on our knowledge of our production process, raw materials and equipments used we do not expect residual solvents to be present.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

EU Fragrance Allergen Statement

Product Name: JASMIN 231

Vigon Code: 502804

The product listed above contains the following substances listen in European Directive 76/768/EEC established by the SCCNFP declared allergens.

Benzyl Alcohol (CAS 100-51-6) 7.0924%
Benzyl Benzoate (CAS 120-51-4) 0.1567%
Benzyl Cinnamate (CAS 103-41-3) 0.0004%
Benzyl Salicylate (CAS 118-58-1) 0.0871%
Cinnamic Alcohol (CAS 104-54-1) 5.3538%
Cinnamal (CAS 104-55-2) 0.0303%
Citronellol (CAS 106-22-9) 0.4522%
Citral (CAS 5392-40-5) 0.0506%
Eugenol (CAS 97-53-0) 0.002%
Farnesol (CAS 4602-84-0) 0.0419%
Geraniol (CAS 106-24-1) 2.3737%
Hydroxycitronellal (CAS 107-75-5) 23.2153%
Limonene (CAS 138-86-3) 0.1075%
Linalool (CAS 78-70-6) 4.4055%

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Melamine Statement

Product Name: JASMIN 231

Vigon Code: 502804

Based on our knowledge of our production process, raw materials and equipment used we do not expect melamine to be present.

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

Phthalate Statement

Product Name: **JASMIN 231**

Vigon Code: **502804**

We've performed a risk assessment on our product contact plastics which include tubes, joints, caps, pumps, as well as packaging (e.g. plastic wraps and bags) and can confirm that our plastic products do not contain certain phthalate esters (most notably bis-2-Ethylhexyl phthalate[DEHP] and dibutyl phthalate [DBP]).

Sincerely,

Vigon Regulatory Department
regulatory@vigon.com
Date of Issue: August 31, 2023

VIGON
PASSION FOR SIMPLICITY
Vigon International, LLC.
127 Airport Road
East Stroudsburg, PA 18301-9629 USA
+1.570.476.6300 | sales@vigon.com

JASMIN 231

Code: 502804 **ID #: EXAMPLE**

	KG	LB
Approx. Gross:	0.000	0.000
Approx. Tare:	0.000	0.000
Net:	**0.000**	**0.000**

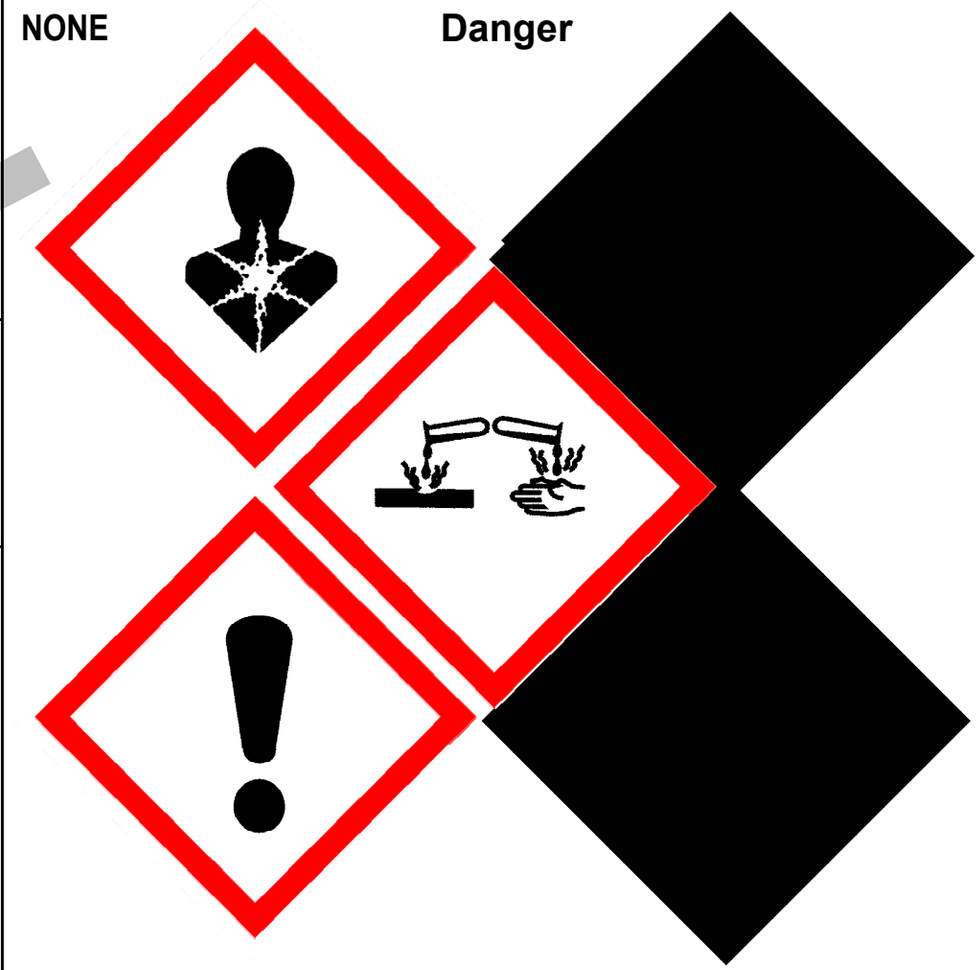
Country of Origin:	USA
Chemical Name:	
CAS#:	MIXTURE
Flash Point:	196ºF (91ºC)
Allergens:	NONE
Liters:	0.000
Produced on:	N/A
Best used before:	N/A
Lot #:	**EXAMPLE**

STORAGE CONDITIONS: Stable when stored in its original package, tightly sealed in a cool (46-90ºF) and dry location out of direct heat and light.

INSTRUCTIONS FOR USE: Ask your employer for guidance regarding the safe use and handling of this product in your specific workplace environment based on the information provided in Vigon's Safety Data Sheet (SDS).

HAZARD STATEMENT: Combustible liquid. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.PRECAUTIONARY STATEMENT: -PREVENTION- 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. Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.-RESPONSE- 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. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.-STORAGE- Store in a well-ventilated place. Store locked up.-DISPOSAL- Dispose of contents/container in accordance with local/regional/national/international regulations.

NONE **Danger**



PPE: **p,r,y**

EXAMPLE