

SAFETY DATA SHEET**511759 NEROL**

Revision Date: 03-06-2023

Page 1 of 15

Version # 06

Print Date: 03-06-2023

1. IDENTIFICATION

Product Description:	NEROL
CAS #	106-25-2
FEMA Number	2770
Other means of identification	
Vigon Item #	511759
Recommended use	Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.
Recommended restrictions	For Manufacturing Use Only

Company

Vigon International, LLC
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, LLC	
Address	127 Airport Road E. Stroudsburg, PA 18301 United States	
Telephone	For information call:	570-476-6300
Website	www.vigon.com	
E-mail	regulatory@vigon.com	
Emergency phone number	INFOTRAC	(ACCT# 78928);
	1-800-535-5053	WITHIN THE U.S.A.
	1-352-323-3500	OUTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 5
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 2 of 15

Version # 06

Print Date: 03-06-2023

Signal word	Warning
Hazard statement	May be harmful if swallowed. Causes skin irritation. Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.
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. Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNO)	None known.
Supplemental information	100% of the substance consists of component(s) of unknown acute inhalation toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
NEROL	(2Z)-3,7- dimethylocta-2,6-dien-1-ol	106-25-2	100

Additional components

Chemical name	Common name and synonyms	CAS number	%
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 - 0.2
GERANIOL	3,7-DIMETHYL-2,6-OCTADIEN-1-OL (2E)-3,7- dimethylocta-2,6-dien-1-ol LEMONOL GERANYL ALCOHOL	106-24-1	0 - 0.2
CITRAL	2,6- OCTADIENAL, 3,7-DIMETHYL- 2,6- dimethyl octadien-2,6-al-8 3,7-DIMETHYL-2,6-OCTADIENAL 3,7- dimethylocta-2,6-dienal	5392-40-5	0 - 0.1

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.



SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Version # 06

Page 3 of 15

Print Date: 03-06-2023

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. Skin irritation. May cause redness and pain. 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	Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. 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

511759 NEROL

Revision Date: 03-06-2023

Page 4 of 15

Version # 06

Print Date: 03-06-2023

Methods and materials for containment and cleaning up

Collect and dispose of spillage as indicated in section 13 of the SDS.

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.

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.

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. 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.

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. ACGIH Threshold Limit Values

Additional components	Type	Value	Form
CITRAL (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor.

Biological limit values

No biological exposure limits noted for the ingredient(s).

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 5 of 15

Version # 06

Print Date: 03-06-2023

Exposure guidelines

- DNEL (Derived No-Effect Level): Workers - Long-term exposure
- Systemic effects – inhalation: 5.4 mg/m³
- Systemic effects – dermal: 0.76 mg/kg bw/day
- Local effects – dermal: 133 µg/cm²
- DNEL (Derived No-Effect Level): General population - Long-term exposure
- Systemic effects – inhalation: 1.3 mg/m³
- Systemic effects – dermal: 0.38 mg/kg bw/day
- Systemic effects – oral: 0.38 mg/kg bw/day
- PNEC (Predicted No-Effect Concentration) aqua (freshwater): 7.45 µg/L
- PNEC (Predicted No-Effect Concentration) aqua (marine water): 0.745 µg/L
- PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant: 12.9 mg/L
- PNEC (Predicted No-Effect Concentration) sediment (freshwater): 133 µg/kg sediment dw
- PNEC (Predicted No-Effect Concentration) sediment (marine water): 13.3 µg/kg sediment dw
- PNEC (Predicted No-Effect Concentration) soil: 22.3 µg/kg soil dw
- PNEC (Predicted No-Effect Concentration) aqua (intermittent releases): 74.5 µg/L
- Additional information: This sheet is based on the current valid lists.

US ACGIH Threshold Limit Values: Skin designation

CITRAL (CAS 5392-40-5)

Danger of cutaneous absorption

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

Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection

Chemical resistant gloves.

Other

Use of an impervious apron is recommended.

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

Keep away from food and drink. 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

< -4 °F (< -20 °C)

Initial boiling point and boiling range

433.4 °F (223 °C)

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 6 of 15

Version # 06

Print Date: 03-06-2023

Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	3.2 hPa at 50 °C
	1.1 hPa at 30 °C
	0.6 hPa at 20 °C
Vapor density	5.3
Relative density	0.88 g/ml at 20 °C
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	log Kow = 2.76 (30°C)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	8.9 mPa·s (20°C - shear rate 583 s-1) (Dynamic)
	6.39 mm ² /s at 25 °C (Kinematic)
	4.5 mPa·s (40°C - shear rate 583 s-1) (Dynamic)
Other information	
Density	9.88 g/cm ³ at 20 °C
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular weight	154.25 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.88 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 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	Knowledge about health hazard is incomplete.
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SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 7 of 15

Version # 06

Print Date: 03-06-2023

Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

Ingestion

May be 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. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

May be harmful if swallowed.

Product

Species

Test Results

NEROL (CAS 106-25-2)

Acute

Oral

LD50

Rat

4500 mg/kg

Presumed Non-Toxic

Dermal

LD50

Rabbit

>= 5000 mg/kg

Additional components

Species

Test Results

CITRAL (CAS 5392-40-5)

Acute

Dermal

LD50

Rabbit

2250 mg/kg

CITRONELLOL (CAS 106-22-9)

Acute

Dermal

LD50

Rabbit

2650 mg/kg

Oral

LD50

Rat

3450 mg/kg

Skin corrosion/irritation

Causes skin irritation.

The substance is classified (skin irritation - category 2) as it was found irritant in a skin irritation study conducted in rabbits according to OECD Guideline No. 404.

Serious eye damage/eye irritation

Causes serious eye irritation.

The substance is classified (effects on the eye - category 2) as it was found irritant in an eye irritation study conducted in rabbits according to a method equivalent to OECD Guideline No. 405.

Respiratory or skin sensitization

ACGIH sensitization

Citral, inhalable fraction and vapor (CAS 5392-40-5)

Dermal sensitization

Respiratory sensitization

Due to partial or complete lack of data the classification is not possible.

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 8 of 15

Version # 06

Print Date: 03-06-2023

Skin sensitization

May cause an allergic skin reaction.

Nerol is classified skin sensitizer category 1B as skin sensitisation effects were observed in the murine Local Lymph Node Assay (LLNA - OECD 429).

The product may contain other skin sensitizers at trace levels: geraniol, citronellol and citral (max 0.2%, 0.2% and 0.1% respectively).

Germ cell mutagenicity

Based on the results of the tests conducted with the substance, no genotoxic potential is expected:

- nerol was not mutagenic in bacteria in an Ames test (OECD 471);
- no effects were observed with the substance in an in vitro chromosome aberration test in human lymphocytes (OECD 473);
- the substance was not mutagenic in an in vitro gene mutation test in mouse lymphoma L5178Y cells (OECD 476). Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

The product is not expected to be carcinogenic: no mutagenic effects were observed with the substance and there is no evidence from the repeated dose toxicity study that the substance is able to induce hyperplasia or pre-neoplastic lesions.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

The effects observed in a reproduction/developmental toxicity screening test conducted in rat according to OECD guideline No 422 (test combined with a repeated dose toxicity study) do not result in classification of nerol.

No treatment-related effects were actually detected in mating performance, fertility and gestation length.

An increase in post-implantation losses was observed but it was associated with a reduced food consumption by gestating females and a decrease in their bodyweight gain.

A further study has been proposed within the context of REACH in order to confirm the non-classification of the substance.

NOAEL (No Observed Adverse Effect Level) - systemic toxicity for males and females (P) = 374 mg/kg bw/day.

NOAEL - reproduction toxicity = 720 mg/kg bw/day.

NOAEL - developmental toxicity = 374 mg/kg bw/day.

Specific target organ toxicity - single exposure

Due to partial or complete lack of data the classification is not possible.

The substance is not classified according to the limited effects observed in LD50 determination studies.

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 9 of 15

Version # 06

Print Date: 03-06-2023

Specific target organ toxicity - repeated exposure

Due to partial or complete lack of data the classification is not possible.
The effects observed in a repeated dose toxicity study (28 days) do not result in classification of nerol.
This study - combined with a reproduction/developmental toxicity screening test - was conducted according to OECD guideline No 422.
Daily administration of the substance by diet for 42 days to male and unmated female rats was well tolerated at doses of 191.2 and 374 mg/kg bw/day.
At 720 mg/kg bw/day a decrease in food consumption and bodyweight gain of animals was observed as well as microscopic abnormalities in liver and kidneys. However, kidney effects are not considered as relevant for humans.
NOAEL = 374 mg/kg bw/day (effects on liver).

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.
Although the substance is a low viscosity and mobile liquid, there is no evidence of aspiration toxicity for this material from either human experience or from animal toxicity data and it is not a member of a recognized category of materials having aspiration toxicity potential (i.e. hydrocarbons).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.
· Toxicity to aquatic microorganisms:
Sewage containing the substance can be treated by a municipal sewage treatment plant (taking into account the PNEC for sewage treatment plant given in section 8).
EC (3h) = 241 mg/L (respiration rate - nominal concentration - activated sludge - OECD 209).

Product		Species	Test Results
NEROL (CAS 106-25-2)			
<i>Acute</i>			
Algae	EC50	Green algae (Pseudokirchneriella subcapitata)	9.54 mg/l, 72 hours
			2.16 mg/l, 72 hours
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	32.4 mg/l, 48 hours
Fish	LC50	Danio rerio	20.3 mg/l, 96 hours
Additional components		Species	Test Results
CITRAL (CAS 5392-40-5)			
<i>Acute</i>			
Other	EC20	Activated sludge of a predominantly domestic sewage	68 mg/l, 0.5 hours OECD Guideline 209 aquatic

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Version # 06

Page 10 of 15

Print Date: 03-06-2023

Additional components		Species	Test Results
Aquatic			
Other	EC50	Bacterium	2100 mg/l, 0.5 hours DIN 38412 Part 27 (draft) aquatic - The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
<i>Acute</i>			
Algae	EC50	Green algae (<i>Chlamydomonas variabilis</i>)	103.8 mg/l, 72 hours DIN 38412 Part 9 static - The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
Crustacea	EC50	Daphnia magna	7 mg/l, 48 hours Directive 79/831/EEC static - The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
Fish	LC50	Ide, silver or golden orfe (<i>Leuciscus idus</i>)	> 4.6 - < 10 mg/l, 96 hours DIN 38415 Part 15 static - The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.
CITRONELLOL (CAS 106-22-9)			
Aquatic			
<i>Acute</i>			
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
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 (<i>Desmodesmus subspicatus</i>)	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

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 11 of 15

Version # 06

Print Date: 03-06-2023

Additional components	Species	Test Results
<i>Acute</i>		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	>= 3.3 - <= 4.1 mg/l, 96 hours
Persistence and degradability	The substance is readily biodegradable. Biodegradation achieved in 28 days: 90% (oxygen consumption - assay conducted according to the OECD 301D guideline - activated sludge from a domestic waste water treatment plant - not adapted). Note: after 7 days, biodegradation was already higher than 60%. According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.	
Biodegradability		
Percent degradation (Aerobic biodegradation)		
GERANIOL	> 90 % OECD 301A (new version)(aerobic), activated sludge, domestic DOC reduction, Readily biodegradable (according to OECD criteria)	
Bioaccumulative potential	No measured data are available for the substance. Based on estimations using 3 different QSARs (Quantitative Structure-Activity Relationship methods) and on the value of the substance partition coefficient n-octanol/water (< 3), an accumulation in organisms is not expected.	
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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADN

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NEROL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 12 of 15

Version # 06

Print Date: 03-06-2023

ADR

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NEROL)
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. (NEROL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing Group	III
Environmental Hazards	Yes
Labels required	9
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

DOT

BULK

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NEROL)
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Packaging exceptions	155
Packaging bulk	241
Labels required	9

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

SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Page 13 of 15

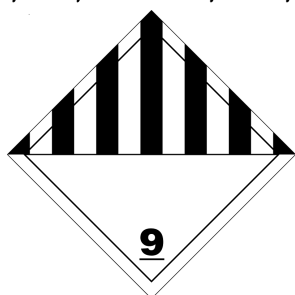
Version # 06

Print Date: 03-06-2023

Transport in bulk according
to Annex II of MARPOL
73/78 and the IBC Code

Not applicable.

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.

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous
chemical

Yes



SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Version # 06

Page 14 of 15

Print Date: 03-06-2023

Classified hazard categories

Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization

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.

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

Issue date

03-06-2023

Revision date

03-06-2023

Version #

06

HMIS® ratings

Health: 2
Flammability: 1
Physical hazard: 0

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SAFETY DATA SHEET

511759 NEROL

Revision Date: 03-06-2023

Version # 06

Page 15 of 15

Print Date: 03-06-2023

Revision information

Product and Company Identification: Vigon Values

HAZARD(S) IDENTIFICATION: Disposal

HAZARD(S) IDENTIFICATION: Prevention

HAZARD(S) IDENTIFICATION: Response

HAZARD(S) IDENTIFICATION: Supplemental information

EXPOSURE CONTROLS/PERSONAL PROTECTION: Other

Physical & Chemical Properties: Multiple Properties

Toxicological Information: Toxicological Data

TOXICOLOGICAL INFORMATION: Respiratory sensitization

TOXICOLOGICAL INFORMATION: Inhalation

TOXICOLOGICAL INFORMATION: Skin contact

REGULATORY INFORMATION: California Proposition 65

REGULATORY INFORMATION: Safe Drinking Water Act (SDWA)

OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION:

References