



504054 Petitgrain Oil Terpeneless

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 17-12-2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : 504054 Petitgrain Oil Terpeneless
Chemical name : Petitgrain Oil Terpeneless
CAS-No. : 68915-85-5
Product code : 504054

1.2. Recommended use and restrictions on use

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.

1.3. Supplier

Supplier

Vigon International, LLC
127 Airport Road,
East Stroudsburg,
PA 18301-9629,
USA

Telephone: +1 570-476-6300
Fax: +1 570-476-1110
Website: www.vigon.com
E-mail: regulatory@vigon.com

1.4. Emergency telephone number

Emergency number : INFOTRAC (ACCT# 78928): 1-800-535-5053 WITHIN THE U.S.A. | 1-352-323-3500 OUTSIDE THE U.S.A.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flam. Liq. 4	H227	Combustible liquid
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

Full text of hazard classes and H-statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : H227 - Combustible liquid
H315 - Causes skin irritation.

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Precautionary statements (GHS US)	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eye irritation.
	H412 - Harmful to aquatic life with long lasting effects.
	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261 - Avoid breathing mist, vapours.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P272 - Contaminated work clothing must not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P302+P352 - If on skin: Wash with plenty of water.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P370+P378 - In case of fire: Use appropriate to extinguish.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	: Petitgrain Oil Terpeneless
CAS-No.	: 68915-85-5

Name	Product identifier	%
Petitgrain Oil Terpeneless	CAS-No.: 68915-85-5	100
Linalyl Acetate	CAS-No.: 115-95-7	55 - 65
Linalool	CAS-No.: 78-70-6	15 - 20
Terpineol Alpha	CAS-No.: 98-55-5	5 - 10
Geranyl Acetate	CAS-No.: 105-87-3	4 - 10
Neryl Acetate	CAS-No.: 141-12-8	2 - 5
Geraniol	CAS-No.: 106-24-1	1 - 5
Nerol	CAS-No.: 106-25-2	1 - 3
Caryophyllene	CAS-No.: 13877-93-5	0.5 - 3

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First-aid measures

4.1. Description of first aid measures

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|---------------------------------------|---|
| First-aid measures after 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. |
| First-aid measures after 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. |
| First-aid measures after eye contact | : Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids. |
| First-aid measures after 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. |

4.2. Most important symptoms and effects (acute and delayed)

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|--|---|
| Expected 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. |
| Symptoms/effects after skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. Causes mild eye irritation. |
| Symptoms/effects after ingestion | : Expected to be a low ingestion hazard. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. 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.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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| 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. |

5.2. Specific hazards arising from the chemical

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| Fire hazard | : Combustible liquid. Static charges generated by emptying package in or near flammable vapor may cause flash fire. |
| Hazardous decomposition products in case of fire | : Fire may produce irritating, corrosive and/or toxic gases. |

5.3. Special protective equipment and precautions for fire-fighters

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|--------------------------------|--|
| Firefighting 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. |
| Protection during firefighting | : 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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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : 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.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for 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.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Hygiene measures : When using do not smoke. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials : Strong oxidizing agents.

Maximum storage period : 1095 days

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Use explosion-proof ventilation equipment to stay below exposure limits.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Protective clothing. Safety glasses. Wear protective gloves. Wear respiratory protection.

Hand protection:

Chemical resistant gloves

Eye protection:

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

Skin and body protection:

Use of an impervious apron is recommended. Chemical resistant gloves

Respiratory protection:

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Personal protective equipment symbol(s):



Thermal hazard protection:

Wear appropriate thermal protective clothing, when necessary.

Other information:

When using do not smoke. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : As per product specification.
Colour : As per product specification.
Odour : Characteristic
Odour threshold : No data available
pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : 165 °F (Closed Cup)
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : No data available

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Vapour pressure	: 0.06 mm Hg (20°C)
Relative vapour density at 20°C	: No data available
Relative density	: 0.89 (25 °C)
Density	: 0.89 g/cm³ (25 °C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

Miscibility	: Miscible in water
Additional information	: Flammability class : Combustible IIIA estimated

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Linalool (78-70-6)

LD50 oral rat	2790 mg/kg
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Terpineol Alpha (98-55-5)

LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

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Nerol (106-25-2)	
LD50 oral rat	4500 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Petitgrain Oil Terpeneless (68915-85-5)	
IARC group	Not listed
National Toxicity Program (NTP) Status	Not listed
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Expected 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.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Causes mild eye irritation.
Symptoms/effects after ingestion	: Expected to be a low ingestion hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Linalool (78-70-6)	
LC50 - Fish [1]	> 22 – < 46 mg/l (96 h, Ide, silver or golden orfe (Leuciscus idus))
EC50 - Crustacea [1]	20 mg/l (48 h, Daphnia magna)
EC50 - Other aquatic organisms [1]	88.3 mg/l (96 h, Green algae (Chlamydomonas variabilis))
LC50 - Fish [2]	27.8 mg/l (96 h)
Additional information	EC10 : > 100 mg/l (3 h, Activated sludge of a predominantly domestic sewage)

Geranyl Acetate (105-87-3)	
LC50 - Fish [1]	68.12 mg/l (96 h, Cyprinus carpio, OECD 203)
EC50 - Crustacea [1]	14.1 mg/l (48 h, Daphnia magna)
EC50 - Other aquatic organisms [1]	3.72 mg/l (72 h, Green algae (Chlamydomonas variabilis), OECD 201)
Additional information	EC10 : > 10000 mg/l (0.5 h, Bacterium)

Geraniol (106-24-1)	
LC50 - Fish [1]	≥ 3.3 – ≤ 4.1 mg/l (96 h, Rainbow trout, donaldson trout (Oncorhynchus mykiss))
EC50 - Crustacea [1]	10.8 mg/l (48 h, Daphnia magna)
EC50 - Other aquatic organisms [1]	13.1 mg/l (72 h, Green algae (Desmodesmus subspicatus))
LC50 - Fish [2]	22 mg/l (96 h, Danio rerio)

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Geraniol (106-24-1)	
EC50 - Other aquatic organisms [2]	70 mg/l (0.5 h, Activated sludge of a predominantly domestic sewage)
Nerol (106-25-2)	
LC50 - Fish [1]	20.3 mg/l (96 h, Danio rerio)
EC50 - Crustacea [1]	32.4 mg/l (48 h, Daphnia magna)
EC50 - Other aquatic organisms [1]	2.16 – 9.54 mg/l (72 h, Green alga (Pseudokirchneriella subcapitata))

12.2. Persistence and degradability

Petitgrain Oil Terpeneless (68915-85-5)	
Persistence and degradability	No additional information available.
Linalyl Acetate (115-95-7)	
Persistence and degradability	No additional information available.
Linalool (78-70-6)	
Persistence and degradability	Readily biodegradable.
Percent degradation (Aerobic biodegradation-ready)	> 60 - < 70 % (28 d, OECD 301D)
Terpineol Alpha (98-55-5)	
Persistence and degradability	No additional information available.
Geranyl Acetate (105-87-3)	
Persistence and degradability	No additional information available.
Neryl Acetate (141-12-8)	
Persistence and degradability	No additional information available.
Geraniol (106-24-1)	
Persistence and degradability	Readily biodegradable.
Percent degradation (Aerobic biodegradation)	> 90 % (OECD 301A, activated sludge, domestic DOC reduction)
Nerol (106-25-2)	
Persistence and degradability	No additional information available.
Caryophyllene (13877-93-5)	
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

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.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Dispose in accordance with all applicable regulations.
Sewage disposal recommendations	: 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.
Product/Packaging disposal recommendations	: Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. 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.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

DOT NA No	: NA1993
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Combustible liquid, n.o.s. (PETITGRAIN OIL TERPENELESS)
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: Combustible liquid
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IMDG

Transport hazard class(es) (IMDG)	: Not regulated
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IATA

Transport hazard class(es) (IATA)	: Not regulated
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14.4. Packing group

Packing group (DOT)	: III
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated

14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Special precautions for user

DOT

UN-No.(DOT)	: NA1993
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DOT Special Provisions (49 CFR 172.102)	: 148 - For domestic transportation, this entry directs to § 173.66 for: a. The standards for transporting a single bulk hazardous material for blasting by cargo tank motor vehicles (CTMV); and b. The standards for CTMVs capable of transporting multiple hazardous materials for blasting in bulk and non-bulk packagings (i.e, a multipurpose bulk truck (MBT)). IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

IMDG

Not regulated

IATA

Not regulated

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Caryophyllene	CAS-No. 13877-93-5	0.5 - 3%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-statements	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4	Flammable liquids, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H227	Combustible liquid
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.