

SECTION 1: Identification

1.1. Identification

Product name : THYME OIL RED
CAS-No. : 8007-46-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial uses: Uses of substances as such or in preparations* at industrial sites

1.3. Details of the supplier of the safety data sheet

Berje
700 Blair Road
Carteret, NJ 07008 - USA
T 973-748-8980 - F 973-680-9618
berje@berjeinc.com - www.berjeinc.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 24 Hours Emergency Chemtrec. ERR - CCN2624

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 3	H226 -	Flammable liquid and vapour.
Acute Tox. 4 (Oral)	H302 -	Harmful if swallowed.
Skin Corr. 1B	H314 -	Causes severe skin burns and eye damage.
Skin Sens. 1	H317 -	May cause an allergic skin reaction.
Carc. 2	H351 -	Suspected of causing cancer.
Asp. Tox. 1	H304 -	May be fatal if swallowed and enters airways.
Aquatic Acute 3	H402 -	Harmful to aquatic life
Aquatic Chronic 2	H411 -	Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS US) :

H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H351 - Suspected of causing cancer.
H402 - Harmful to aquatic life
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Explosion-free electrical equipment and lighting with earth
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe gas, fumes, vapour or spray
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing must not be allowed out of the workplace.

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P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water/...
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER/doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P391 - Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose in a safe manner in accordance with local/national regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
Thymol	(CAS-No.) 89-83-8	50 - 65	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
p-Cymene	(CAS-No.) 99-87-6	10 - 25	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
GAMMA TERPINENE	(CAS-No.) 99-85-4	10 - 25	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
Carvacrol	(CAS-No.) 499-75-2	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Linalool	(CAS-No.) 78-70-6	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
CARYOPHYLLENE	(CAS-No.) 87-44-5	1 - 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
Myrcene	(CAS-No.) 123-35-3	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
TERPINENE-4-OL	(CAS-No.) 562-74-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
alpha-Pinene	(CAS-No.) 80-56-8	0.97 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
TERPINENE ALPHA	(CAS-No.) 99-86-5	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Reactivity	: Thermal decomposition generates : Corrosive vapours.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe gas, fumes, vapour or spray. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Explosion-free electrical equipment and lighting with earth. Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves/protective clothing/eye protection protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless
Odour	: characteristic
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 131 °F
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: 0.4 mm Hg 20°C
Relative density	: 0.925
Relative vapour density at 20 °C	: No data available
Solubility	: Poorly soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: < 20.5 mm ² /s
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures. Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapours.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

THYME OIL RED (8007-46-3)	
ATE US (oral)	909.091 mg/kg bodyweight
Thymol (89-83-8)	
ATE US (oral)	500 mg/kg bodyweight
Carvacrol (499-75-2)	
ATE US (oral)	500 mg/kg bodyweight
TERPINENE ALPHA (99-86-5)	
ATE US (oral)	500 mg/kg bodyweight
TERPINENE-4-OL (562-74-3)	
ATE US (oral)	500 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Serious eye damage, category 1, implicit
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 : Suspected of causing cancer.

Myrcene (123-35-3)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.
Potential adverse human health effects and symptoms : Harmful if swallowed.
Symptoms/effects after inhalation : May cause an allergic skin reaction.
Symptoms/effects after eye contact : Causes serious eye damage.
Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

THYME OIL RED (8007-46-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Thymol (89-83-8)	
Persistence and degradability	May cause long-term adverse effects in the environment.

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p-Cymene (99-87-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Carvacrol (499-75-2)	
Persistence and degradability	Biodegradability in water: no data available. Not established.
Linalool (78-70-6)	
Persistence and degradability	Not established.
CARYOPHYLLENE (87-44-5)	
Persistence and degradability	Not established.
Myrcene (123-35-3)	
Persistence and degradability	No data available. Not established.
TERPINENE ALPHA (99-86-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.
TERPINENE-4-OL (562-74-3)	
Persistence and degradability	Not established.
GAMMA TERPINENE (99-85-4)	
Persistence and degradability	Not established.
alpha-Pinene (80-56-8)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

THYME OIL RED (8007-46-3)	
Bioaccumulative potential	Not established.
Thymol (89-83-8)	
Bioaccumulative potential	Not established.
p-Cymene (99-87-6)	
Bioaccumulative potential	Not established.
Carvacrol (499-75-2)	
Log Pow	3.49
Bioaccumulative potential	Not established.
Linalool (78-70-6)	
Bioaccumulative potential	Not established.
CARYOPHYLLENE (87-44-5)	
Bioaccumulative potential	Not established.
Myrcene (123-35-3)	
Bioaccumulative potential	No data available. Not established.
TERPINENE ALPHA (99-86-5)	
Bioaccumulative potential	Not established.
TERPINENE-4-OL (562-74-3)	
Bioaccumulative potential	Not established.
GAMMA TERPINENE (99-85-4)	
Bioaccumulative potential	Not established.
alpha-Pinene (80-56-8)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.
- Additional information : Handle empty containers with care because residual vapours are flammable.
- Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

- Transport document description : UN2924 Flammable liquids, corrosive, n.o.s., 3 (8), III
- UN-No.(DOT) : UN2924
- Proper Shipping Name (DOT) : Flammable liquids, corrosive, n.o.s.
- Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
- Hazard labels (DOT) : 3 - Flammable liquid
8 - Corrosive



- Packing group (DOT) : III - Minor Danger
- Dangerous for the environment : Yes
- Marine pollutant : Yes (THYMOL)



- DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
- DOT Packaging Bulk (49 CFR 173.xxx) : 242
- DOT Symbols : G - Identifies PSN requiring a technical name
- DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
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).
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
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.
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
- DOT Packaging Exceptions (49 CFR 173.xxx) : 150
- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 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.
- DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
- Emergency Response Guide (ERG) Number : 132

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Other information : No supplementary information available.

Transportation of Dangerous Goods

Passenger Carrying Road Vehicle or Passenger : III
Carrying Railway Vehicle Index

Transport by sea

UN-No. (IMDG) : 2924
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : III - substances presenting low danger
MFAG-No : 132

Air transport

UN-No. (IATA) : 2924
Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s.
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger
Civil Aeronautics Law : Flammable liquids

SECTION 15: Regulatory information

15.1. US Federal regulations

THYME OIL RED (8007-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Thymol (89-83-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

p-Cymene (99-87-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carvacrol (499-75-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Linalool (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CARYOPHYLLENE (87-44-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Myrcene (123-35-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

TERPINENE ALPHA (99-86-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Borneol (507-70-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

TERPINENE-4-OL (562-74-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

+d-Limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

GAMMA TERPINENE (99-85-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

alpha-Pinene (80-56-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

p-Cymene (99-87-6)

Listed on the Canadian DSL (Domestic Substances List)

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Carvacrol (499-75-2)

Listed on the Canadian DSL (Domestic Substances List)

Linalool (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

CARYOPHYLLENE (87-44-5)

Listed on the Canadian DSL (Domestic Substances List)

Myrcene (123-35-3)

Listed on the Canadian DSL (Domestic Substances List)

alpha-Pinene (80-56-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Myrcene (123-35-3)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Myrcene (123-35-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

p-Cymene (99-87-6)

U.S. - Pennsylvania - RTK (Right to Know) List

Borneol (507-70-0)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

alpha-Pinene (80-56-8)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date	: 04/17/2019
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

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Full text of H-statements:

H226	Flammable liquid and vapour.
H227	Combustible liquid
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Hazard Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B
B - Safety glasses, Gloves

SDS US (Berje) 5.2

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.