

636N9 - OTTO BOCK Quick Drying Rubber Cement

Material number 636N 9

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1. Product and company identification

Product identifier

Trade name: 636N9 - OTTO BOCK Quick Drying Rubber Cement

Recommended use and restrictions on use

General use: Adhesive for orthopedic procedures.
Only for industrial users.

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

Postal Code, city: Burlington, ON L7L 5N5, CA
Canada

WWW: www.ottobock.ca

E-mail: info.canada@ottobock.com

Telephone: (800) 665-3327

Telefax: (800) 463-3659

Department responsible for information:

Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

Additional information:

Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency phone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Color: light yellow

Odor: Characteristic

Classification: Flammable Liquid 2. Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1.
Reproductive toxicity 1B. Specific Target Organ Toxicity (Single Exposure) 3.
Specific Target Organ Toxicity (Repeated Exposure) 2. Aquatic toxicity - acute 2.
Aquatic toxicity - chronic 2.

Hazard symbols:



Signal word:

Danger

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Hazard statements:

- Highly flammable liquid and vapor.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause drowsiness or dizziness.
- May damage fertility. Suspected of damaging the unborn child.
- May cause damage to organs through prolonged or repeated exposure.
- Toxic to aquatic life with long lasting effects.

Precautionary statements:

- Obtain special instructions before use.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not breathe mist/vapors/spray.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection.
- IF exposed or concerned: Get medical advice/attention.
- Collect spillage.
- Store in a well-ventilated place. Keep cool.

Regulatory status

This material is considered hazardous by the WHMIS in Canada.

Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 141-78-6	Ethyl acetate	25 - 30 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 108-88-3	Toluene	20 - 25 %	Flammable Liquid 2. Skin Irritation 2. Reproductive toxicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 2. Aspiration Toxicity 1. Aquatic toxicity - acute 2. Aquatic toxicity - chronic 3.
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	15 - 20 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - acute 2. Aquatic toxicity - chronic 2.
CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	10 - 15 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - acute 2. Aquatic toxicity - chronic 2.
CAS 28453-20-5	Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol and phenol	1 - 5 %	Sensitization - skin 1.
CAS 25085-50-1	4-tert-butylphenol formaldehyde resin	< 1 %	Sensitization - skin 1.
CAS 1314-13-2	Zinc oxide	< 1 %	Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 1 (M-factor = 1).
CAS 8050-09-7	Colophony	< 1 %	Sensitization - skin 1.
CAS 119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	< 0.3 %	Reproductive toxicity 1B.

4. First aid measures

General information:	Take off contaminated clothing and wash it before reuse. First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Do not use solvents or thinners. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

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Most important symptoms and effects, both acute and delayed

Causes skin irritation and serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Information to physician

Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.
Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

-26 °C

Auto-ignition temperature: Not self-igniting

Suitable extinguishing media:

Water spray jet, extinguishing powder, carbon dioxide
In case of large fires: water spray jet, alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Full water jet.

Specific hazards arising from the chemical

Highly flammable liquid and vapor.
Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapors may proceed on the ground over great distances and cause fire and backflashes.
Furthermore, there may develop: Carbon monoxide and carbon dioxide

Special protective equipment and precautions for fire-fighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Suppress gases/vapors/mists with water spray jet. Cool endangered containers with water spray and, if possible, remove from danger zone. Heating will lead to pressure increase: Danger of bursting and explosion.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions:

Avoid exposure.
Eliminate all ignition sources if safe to do so. If possible, eliminate leakage.
Cordon off downwind area at risk and warn inhabitants.
Avoid contact with the substance. Provide adequate ventilation.
Keep unprotected people away. Wear appropriate protective equipment.
Do not breathe mist/vapors/spray.
Take off contaminated clothing and wash it before reuse.

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Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!
In case of release, notify competent authorities.

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.
Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling:

Obtain special instructions before use.
Provide adequate ventilation, and local exhaust as needed.
Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not breathe mist/vapors/spray. Take off contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Handle and open container with care. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.
Protect from heat and direct sunlight.

Hints on joint storage:

Keep away from strong acids and bases as well as oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
141-78-6	Ethyl acetate	Canada: OEL 8 hour	1,440 mg/m ³ ; 400 ppm
		Canada: OEL TWA	150 ppm
		Canada: VEMP	1,440 mg/m ³ ; 400 ppm
108-88-3	Toluene	Canada: OEL 8 hour	188 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Canada: OEL TWA	20 ppm
		Canada: VEMP	20 ppm
1314-13-2	Zinc oxide	Canada: OEL 15 min	10 mg/m ³
		Canada: OEL 8 hour	2 mg/m ³
		Canada: OEL STEL	10 mg/m ³ (respirable fraction)
		Canada: OEL TWA	2 mg/m ³ (respirable fraction)
		Canada: VECD	10 mg/m ³ (respirable fraction)
		Canada: VEMP	2 mg/m ³ (respirable fraction)
8050-09-7	Colophony	Canada: OEL TWA	0.001 mg/m ³ (inhalable fraction)
		Canada: VEMP	0.001 mg/m ³ (Aerosol, inhalable fraction)

Engineering controls

Use only explosion-protected equipment/instruments.
Provide adequate ventilation, and local exhaust as needed.
Vent high concentrations of aerosols and/or fumes from the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.
In case of handling larger quantities: Flame-resistant antistatic protective clothing
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Fluororubber (Viton) or nitrile rubber
Breakthrough time >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations: Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. When using do not eat or drink. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

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Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Color: light yellow
Odor:	Characteristic
Odor threshold:	No data available
pH:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	75 - 77.5 °C
Flash point/flash point range:	-26 °C
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 11.50 Vol-%
Vapor pressure:	at 20 °C: 261 hPa at 50 °C: 920 hPa
Vapor density:	No data available
Density:	at 20 °C: 0.89 g/mL (DIN 51757)
Water solubility:	Immiscible
Partition coefficient: n-octanol/water:	3.07 - 3.78 log K(o/w) (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 3.42 - 5.80 log K(o/w) (Hydrocarbons, C6, isoalkanes, < 5% n-hexane) Based on the n-octanol/water partition coefficient accumulation in organisms is possible. 0.73 log K(o/w) (Ethyl acetate) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. 2.73 log K(o/w) (Toluene) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	Not self-igniting
Thermal decomposition:	No data available
Viscosity, dynamic:	Not determined
Viscosity, kinematic:	Not determined
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	> 200 °C
Solvent content:	74.2 %
Solid content:	25.6 %

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Heating will lead to pressure increase: Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight. Protect from frost.
Incompatible materials:	Keep away from strong acids and bases as well as oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available

11. Toxicological information

Toxicological tests

Toxicological effects:	<p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 2,000 mg/kg</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 2,000 mg/kg</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE (vapor) > 20 mg/L/4h ATEmix (calculated): ATE (dust/mist) > 5 mg/L/4h</p> <p>Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.</p> <p>Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity: Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Reproductive toxicity 1B = May damage fertility. Suspected of damaging the unborn child.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.</p> <p>Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) 2 = May cause damage to organs through prolonged or repeated exposure.</p> <p>Aspiration hazard: Based on available data, the classification criteria are not met.</p>
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Other information:

Information about Ethyl acetate (CAS 141-78-6):

LD50 Rabbit, oral: 4,934 mg/kg

LD50 Rabbit, dermal: > 20,000 mg/kg

LC0 Rat, inhalative (vapor): > 22.5 mg/L/6h

Information about Toluene (CAS 108-88-3):

LD50 Rat, oral: 5,580 mg/kg

LD50 Rabbit, dermal: > 5,000 mg/kg

LC50 Rat, inhalative (vapor): 28.1 mg/L/4h

Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (comparable to CAS 64742-49-0):

LD50 Rat, oral: > 5,840 mg/kg

LD50 Rat, dermal: > 2,200 mg/kg

LC50 Rat, inhalative (vapor): > 23.3 mg/L/4h

Symptoms

The following symptoms may occur: Dizziness, headache, irritation to respiratory tract, fatigue, Impaired consciousness, Nausea, vomiting, breathing paralysis.

In case of inhalation: Narcotic effect in case of higher doses or prolonged exposure.

After contact with skin: Danger of cutaneous absorption.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

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12. Ecological information

Ecotoxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Information about Ethyl acetate (CAS 141-78-6):

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 230 mg/L/96h

Daphnia toxicity:

EC50 Daphnia Cucullata: 165 mg/L/48h

Algae toxicity:

NOEC Desmodesmus subspicatus (green algae): > 100 mg/L/72h

Information about Toluene (CAS 108-88-3):

Fish toxicity:

LC50 Oncorhynchus mykiss: 5.5 mg/L/96h

NOEC Oncorhynchus kisutch (silver salmon): 1.4 mg/L/40d

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 3.8 mg/L/48h

NOEC Ceriodaphnia dubia (water flea): 0.74 mg/L/7d

Algae toxicity:

IC50 Selenastrum capricornutum: 12 mg/L/72h

Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (comparable to CAS 64742-49-0):

Fish toxicity:

LL50: > 13.7 mg/L/96h

EL10 Oncorhynchus mykiss: 1.38 mg/L/60d

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 4.6 - 10 mg/L/48h

NOEC Daphnia magna (Big water flea): 0.17 mg/L/21d

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 12 mg/L/72h

Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane (comparable to CAS 64742-49-0):

Fish toxicity:

LL50 Oncorhynchus mykiss: 12 mg/L/96h

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 3 mg/L/48h

Algae toxicity:

ErL50 Pseudokirchneriella subcapitata (green algae): 55 mg/L/72h

Information about Zinc oxide (CAS 1314-13-2):

Fish toxicity:

LC50 Cottus Bairdii: 0.215 mg/L/96h

NOEC: 0.026 - 1.184 mg/L/30d

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.095 mg/L/48h

NOEC: 0.014 - 0.718 mg/L/30d

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae): 0.308 mg/L/72h

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NOEC Pseudokirchneriella subcapitata (green algae): 0.024 mg/L/72h

Mobility in soil

No data available

Persistence and degradability

Further details: Information about Ethyl acetate (CAS 141-78-6):
100%/28d (OECD 301D), easily bio-degradable
Information about Toluene (CAS 108-88-3):
69 - 81%/5d, easily bio-degradable
Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (comparable to CAS 64742-49-0):
> 60%/28d (OECD 301F), easily bio-degradable
Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane (comparable to CAS 64742-49-0):
> 60%/28d (OECD 301F), easily bio-degradable

Additional ecological information

Volatile organic compounds (VOC):
74.17 % by weight / 666.8 g/L
General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.
Do not dispose of with household waste. Do not empty into drains.

Package

Recommendation: Dispose of waste according to applicable legislation.
Incinerate as hazardous waste according to applicable local, state, and federal regulations.
Handle empty containers with care. Incineration may cause explosion.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
UN 1133

UN proper shipping name

ADR/RID, IATA-DGR: UN 1133, ADHESIVES
IMDG: UN 1133, ADHESIVES (ethyl acetate, toluene), MARINE POLLUTANT

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Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3

Packing group

ADR/RID, IMDG, IATA-DGR:
II

Environmental hazards

Marine pollutant: yes



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

No data available

Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1133
Shipping name: UN 1133, adhesives
TDG class: 3
Packing group: II
Explosive limit and limited quantity index: 5L
Passenger carrying road or rail index: 5L

Sea transport (IMDG)

UN number: UN 1133
Proper shipping name: UN 1133, ADHESIVES (ethyl acetate, toluene), MARINE POLLUTANT
Class or division, Subsidiary risk: Class 3, Subrisk -
Packing Group: II
EmS: F-E, S-D
Special Provisions: -
Limited quantities: 5 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: PP1
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP8
Stowage and handling: Category B.
Properties and observations: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.
Marine pollutant: yes
Segregation group: none

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Air transport (IATA)

UN/ID number: UN 1133
Proper shipping name: UN 1133, ADHESIVES
Class or division, Subsidiary risk: Class 3
Packing Group: II
Hazard label: Flamm. liquid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisions: A3
Emergency Response Guide-Code (ERG): 3L

Further information

Protect from frost.

15. Regulatory information

National regulations - Canada

Ethyl acetate: DSL: listed
Toluene: DSL: listed
Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol and phenol: DSL: listed
4-tert-butylphenol formaldehyde resin: DSL: listed
Zinc oxide: DSL: listed
Colophony: DSL: listed
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol: DSL: listed

16. Other information

Text for labeling: Contains 25 - 30 % Ethyl acetate, 20 - 25 % Toluene, 15 - 20 % Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, 10 - 15 % Hydrocarbons, C6, isoalkanes, < 5% n-hexane, 1 - 5 % Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol and phenol, < 1 % 4-tert-butylphenol formaldehyde resin, < 1 % Zinc oxide, < 1 % Colophony, < 0.3 % 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol.

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)
Fire: 3 (Serious)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 3 (Serious) - Chronic effects
Flammability: 3 (Serious)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		0
		X

Classification procedure: Physical hazards: on basis of test data
Health hazards, environmental hazards: calculation method

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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Aspiration Toxicity: Aspiration toxicity
ATE: Acute toxicity estimate
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EL50: Effective loading rate 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Flammable Liquid: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC0: Lethal concentration 0%
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Reproductive toxicity: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure
SVHC: Substance of very high concern
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 2: Classification, labeling
Changes in section 3: Composition/information on ingredients
Changes in section 9: Physical and chemical properties
Changes in section 12: Ecological information
General revision

Date of first version: 7/7/2020

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.