

## 1. Identification

### Product identifier

Trade name: 636L25 - 3D-Scanning Spray strong

### Relevant identified uses of the substance or mixture and uses advised against

General use: Spray for pre-treatment of surfaces for orthopedic procedures

### Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care

Street/POB-No.: 3820 W. Great Lakes Drive

Zip code, city: Salt Lake City, UT 84120  
USA

WWW: [www.ottobockus.com](http://www.ottobockus.com)

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,

Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),

Email: [USRegulatory@ottobock.com](mailto:USRegulatory@ottobock.com)

Additional information:

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

### Emergency telephone number

**CHEMTREC, Telephone: +1 (800) 424-9300**

**Transport:**

**CONSULTANK Lutz Harder GmbH (Contract QUALI003)**

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

## 2. Hazard identification

### Classification of the substance or mixture

Aerosol - Category 1	Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irritation - Category 2	Causes serious eye irritation.
Sensitization - skin - Category 1	May cause an allergic skin reaction.

### Label elements

Symbols:



Signal word:

**Danger**

Hazard statements:

Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

### Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid breathing mist/vapors/spray.

Wash hands and face thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection.

IF ON SKIN: Wash with plenty of water/soap.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see 'First aid' on this label).

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.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of contents/container to hazardous or special waste collection point.

### Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect.

## 3. Composition/information on ingredients

### Mixtures

Chemical characterization: Blend of active ingredients with propellant

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64-17-5	Ethanol	25 - 50 %	Flammable Liquid - Category 2. Eye Irritation - Category 2.
CAS 141-78-6	Ethyl acetate	5 - 10 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 1259547-09-5	2-Propenoic acid, 2-methyl-, 2-(dimethylamino) ethyl ester, polymer with butyl 2-propenoate, comps. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers	< 1 %	Sensitization - skin - Category 1.
CAS 147900-93-4	Fatty acids, C18-unsaturated, trimers, compound with 9-octadecen-1-amine, (Z)-	< 1 %	Acute Toxicity - oral - Category 4. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 78-93-3	Butanone	< 1 %	Flammable Liquid - Category 2. Eye Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 85711-55-3	Fatty acids, tall-oil, compds. with oleylamine	< 1 %	Eye Damage - Category 1. Sensitization - skin - Category 1A. Specific Target Organ Toxicity (Repeated Exposure) - Category 2.
CAS 108-31-6	Maleic anhydride	0.001 - < 0.1 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Eye Damage - Category 1. Respiratory Sensitizer - Category 1. Sensitization - skin - Category 1A. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aquatic toxicity - acute - Category 3.
CAS 115-10-6	Dimethyl ether	10 - 20 %	Flammable Gas - Category 1A. Compressed Gas.
CAS 74-98-6	Propane	5 - 10 %	Flammable Gas - Category 1A. Liquefied Gas. Aquatic toxicity - acute - Category 3.
CAS 106-97-8	Butane	5 - 10 %	Flammable Gas - Category 1A. Liquefied Gas. Aquatic toxicity - acute - Category 3.
CAS 75-28-5	Isobutane	< 2.5 %	Flammable Gas - Category 1A. Liquefied Gas. Aquatic toxicity - acute - Category 3.

The actual concentration or concentration range is withheld as a trade secret.

Additional information: Contains Titanium dioxide.  
The maximum workplace exposure limits are, where necessary, listed in section 8.

### 4. First aid measures

General information: If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.

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: Remove residues with soap and water. 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. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

#### Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction.  
Causes serious eye irritation.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Higher doses may lead to a narcotic effect.

#### Information to physician

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, dry extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

#### Specific hazards arising from the chemical

Extremely flammable aerosol. Vapors may proceed on the ground over great distances and cause fire and backflashes. In case of insufficient ventilation and/or when used, may form explosive/highly flammable vapor-air mixture.  
May form dangerous gases and vapors in case of fire. Furthermore, there may develop: carbon monoxide and carbon dioxide.

#### Protective equipment and precautions for firefighters

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

Additional information: Do not inhale explosion and combustion gases. Use fine water spray to cool endangered containers.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow fire water to penetrate into surface or ground water.  
Contaminated fire-fighting water must be collected separately.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do not breathe spray. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so.

If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants.

#### Environmental precautions:

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

### Methods and material for containment and cleaning up

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.

Never return spills in original containers for re-use.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

## 7. Handling and storage

### Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe spray. Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear appropriate protective equipment.

Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

#### Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

Use only explosion-protected equipment/instruments. In partially filled containers explosive mixtures may form.

Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in original container.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store containers in upright position.

#### Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with: Oxidizing agents.

### 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64-17-5	Ethanol	USA: ACGIH: STEL USA: IDLH: TWA USA: NIOSH: TWA USA: OSHA: TWA	1,000 ppm 3,300 ppm [10% LEL] 1,900 mg/m <sup>3</sup> ; 1,000 ppm 1,900 mg/m <sup>3</sup> ; 1,000 ppm
141-78-6	Ethyl acetate	USA: ACGIH: STEL USA: ACGIH: TWA USA: IDLH: TWA USA: NIOSH: TWA USA: OSHA: TWA	200 ppm 100 ppm 2,000 ppm [10% LEL] 1,400 mg/m <sup>3</sup> ; 400 ppm 1,400 mg/m <sup>3</sup> ; 400 ppm
13463-67-7	Titanium dioxide	USA: ACGIH: TWA  USA: ACGIH: TWA  USA: IDLH: TWA USA: OSHA: TWA	0.2 mg/m <sup>3</sup> (nanoparticle, respirable fraction) 2.5 mg/m <sup>3</sup> (fine dust, respirable fraction) 5,000 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> (total dust)
78-93-3	Butanone	USA: ACGIH: STEL  USA: ACGIH: TWA  USA: IDLH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	150 ppm (may be absorbed through the skin) 75 ppm (may be absorbed through the skin) 3,000 ppm 885 mg/m <sup>3</sup> ; 300 ppm 590 mg/m <sup>3</sup> ; 200 ppm 590 mg/m <sup>3</sup> ; 200 ppm
108-31-6	Maleic anhydride	USA: ACGIH: TWA  USA: IDLH: TWA USA: NIOSH: TWA USA: OSHA: TWA	0.01 mg/m <sup>3</sup> ; 0.0025 ppm (inhalable fraction and vapor) 10 mg/m <sup>3</sup> 0.25 mg/m <sup>3</sup> ; 1 ppm 1 mg/m <sup>3</sup> ; 0.25 ppm
74-98-6	Propane	USA: IDLH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2,100 ppm [10% LEL] 1,800 mg/m <sup>3</sup> ; 1,000 ppm 1,800 mg/m <sup>3</sup> ; 1,000 ppm
106-97-8	Butane	USA: ACGIH: TWA USA: IDLH: TWA USA: NIOSH: TWA	1,000 ppm 1,600 ppm [>10% LEL] 1,900 mg/m <sup>3</sup> ; 800 ppm
75-28-5	Isobutane	USA: ACGIH: TWA USA: NIOSH: TWA	1,000 ppm 1,900 mg/m <sup>3</sup> ; 800 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
78-93-3	Butanone	USA: ACGIH-BEI, urine	2 mg/L	MEK	end of exposure or end of shift

### Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

### Personal protection equipment (PPE)

Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection. Recommendation: Use combination filter type A-P3 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection:	Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Butyl caoutchouc (butyl rubber) Layer thickness: $\geq 0.4$ mm Breakthrough time: $> 42$ min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
General hygiene considerations:	Do not breathe spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 68 °F and 101.3 kPa	Form: Aerosol
Color:	varying colors
Odor:	Characteristic
Odor threshold:	No data available
Melting point/freezing point:	Not applicable, Aerosol
Initial boiling point and boiling range:	Not applicable, Aerosol
Flammability:	Extremely flammable aerosol.
Explosion limits:	LEL (Lower Explosion Limit): 3.30 Vol-% (Dimethyl ether) UEL (Upper Explosive Limit): 26.20 Vol-% (Dimethyl ether)
Flash point/flash point range:	24.8 °F (Ethyl acetate)
Evaporation rate:	No data available
Auto-ignition temperature:	Not applicable, Aerosol
Decomposition temperature:	No data available
pH:	No data available
Viscosity:	No data available
Water solubility:	Practically insoluble

Partition coefficient: n-octanol/water:

at 68 °F: 2.89 log K(o/w) (Butane)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 68 °F: 0.07 log K(o/w) (Dimethyl ether)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

at 68 °F: 2.76 log K(o/w) (Isobutane)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 68 °F: -0.35 log K(o/w) (Ethanol)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

at 68 °F: 2.36 log K(o/w) (Propane)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

Vapor pressure:

at 68 °F: 4,000 hPa (Dimethyl ether)

Density:

at 68 °F: 0.9 g/cm<sup>3</sup>

Vapor density:

No data available

Particle characteristics:

Not applicable

### Additional information

Explosive properties:

Potentially explosive mixtures may form if adequate ventilation is not provided.

Oxidizing characteristics:

Not oxidising

Ignition temperature:

438.8 °F (Dimethyl ether)

Solid content:

31.7 %

## 10. Stability and reactivity

Reactivity:

Extremely flammable aerosol.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

Potentially explosive mixtures may form if adequate ventilation is not provided.

Pressurised container: May burst if heated.

Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Incompatible materials:

Oxidizing agents

Hazardous decomposition products:

No hazardous decomposition products when regulations for storage and handling are observed.



## 11. Toxicological information

### Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 5,000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Eye Irritation - Category 2 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Ethanol (CAS 64-17-5):

LD50 Rat, oral: 10,470 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 15,800 mg/kg

LC50 Rat, inhalative (vapor) : > 50 mg/L/4h (OECD 403)

Carcinogenic effect:

IARC Rating: Group 1

OSHA Carcinogen: not listed

NTP Rating: not listed

Information about Dimethyl ether (CAS 115-10-6):

LC50 Rat, inhalative (gas) : 164,000 ppmV/4h (OECD 403)

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

LD50 Rat, oral: 4,934 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 20,000 mg/kg (OECD 402)

LC50 Rat, inhalative (vapor): > 22.5 mg/L/6h, no mortality occurred

Carcinogenic effect, Titanium dioxide (CAS 13463-67-7):

IARC Rating: Group 2B

OSHA Carcinogen: not listed

NTP Rating: not listed

### Symptoms

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

## 12. Ecological information

### Ecotoxicity

#### Aquatic toxicity:

Information about Ethanol (CAS 64-17-5):

Fish toxicity:

LC50 Oncorhynchus mykiss: 11,200 mg/L/96h

NOEC Danio rerio (zebrafish): 250 mg/L/5d (OECD 212)

Daphnia toxicity:

EC50 Artemia salina: 857 mg/L/48h

NOEC Daphnia magna (Big water flea): 9.6 mg/L/10d

Algae toxicity:

ErC50 Chlorella vulgaris (unicellular green algae): 275 mg/L/72h (OECD 201)

NOEC Chlorella vulgaris (unicellular green algae): 11.5 mg/L/72h (OECD 201)

Information about Dimethyl ether (CAS 115-10-6):

Fish toxicity:

LC50 Poecilia reticulata: > 4,100 mg/L/96h (NEN 6504)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 4,400 mg/L/48h (NEN 6501)

Algae toxicity:

EC50: 155 mg/L/96h (QSAR)

Information about Propane (CAS 74-98-6):

Fish toxicity:

LC50: 53.1 mg/L/96h

NOEC: 3.6 mg/L/30d

Daphnia toxicity:

LC50: 1.95 mg/L/48h

NOEC Daphnia magna (Big water flea): 1.105 mg/L/30d

Algae toxicity:

EC50: 20.6 mg/L/96h

data obtained by analogy conclusion, e.g. (Q)SAR

Information about Butane (CAS 106-97-8):

Fish toxicity:

LC50: 25.4 mg/L/96h

NOEC: 1.81 mg/L/30d

Daphnia toxicity:

LC50: 14.8 mg/L/48h

NOEC Daphnia magna (Big water flea): 1.105 mg/L/30d

Algae toxicity:

EC50: 12.4 mg/L/96h

data obtained by analogy conclusion, e.g. (Q)SAR

Information about Isobutane (CAS 75-28-5):

Fish toxicity:

LC50: 29.5 mg/L/96h

NOEC: 2.09 mg/L/30d

Daphnia toxicity:

LC50: 17.1 mg/L/48h

NOEC Daphnia magna (Big water flea): 1.25 mg/L/30d

Algae toxicity:

EC50: 13.9 mg/L/96h

data obtained by analogy conclusion, e.g. (Q)SAR

### Persistence and degradability

Further details:

Biodegradability:

Information about Ethanol (CAS 64-17-5):

Oxygen consumption: 84%/20d, easily bio-degradable

Information about Dimethyl ether (CAS 115-10-6):

Oxygen consumption: 5%/28d (OECD 301 D)

Not easily bio-degradable. Product can be decomposed through abiotic (e.g. chemical or photolytic) processes.

Information about Propane (CAS 74-98-6), Butane (CAS 106-97-8), Isobutane (CAS 75-28-5):

Easily bio-degradable (data obtained by analogy conclusion, e.g. (Q)SAR)

### Bioaccumulative potential

Partition coefficient: n-octanol/water:

at 68 °F: 2.89 log K(o/w) (Butane)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 68 °F: 0.07 log K(o/w) (Dimethyl ether)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

at 68 °F: 2.76 log K(o/w) (Isobutane)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 68 °F: -0.35 log K(o/w) (Ethanol)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

at 68 °F: 2.36 log K(o/w) (Propane)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

### Mobility in soil

No data available

### Other adverse effects

General information:

Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Waste treatment methods

#### Product

Recommendation:

Do not pierce or burn, even after use. Dispose of waste according to applicable legislation. Do not allow to enter drains.

#### Package

Recommendation:

Empty carefully and completely, if possible. Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

### UN number

DOT: UN1950  
IMDG, IATA-DGR: UN 1950

### UN proper shipping name

DOT, IMDG: UN 1950, AEROSOLS  
IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

### Transport hazard class(es)

DOT: 2.1  
IMDG: Class 2.1, Subrisk -  
IATA-DGR: Class 2.1



### Packing group

DOT, IATA-DGR: not applicable  
IMDG: -

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

### Special precautions for user

#### USA: Department of Transportation (DOT)

Labels: 2.1  
Special Provisions: N82  
Packaging – Exceptions: 306  
Packaging – Non-bulk: None  
Packaging – Bulk: None  
Quantity limitations – Passenger aircraft / rail: 75 kg  
Quantity limitations – Cargo only: 150 kg  
Vessel stowage – Location: A  
Vessel stowage – Other: 25, 87, 126, 157

### Sea transport (IMDG)

EmS:	F-D, S-U
Special Provisions:	63 190 277 327 344 381 959
Limited quantities:	1000 mL
Excepted quantities:	E0
Package - Instructions:	P207, LP200
Package - Provisions:	PP87, L2
IBC - Instructions:	-
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	-
Tank instructions - Provisions:	-
Stowage and handling:	SW1 SW22
Segregation:	SG69
Properties and observations:	-
Marine pollutant:	no
Segregation group:	none

### Air transport (IATA)

Proper shipping name:	UN 1950, AEROSOLS, FLAMMABLE
Hazard label:	Flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions:	A145 A167 A802
Emergency Response Guide-Code (ERG):	10L

### 15. Regulatory information

#### National regulations - U.S. Federal Regulations

Ethanol:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status: IARC Rating: Group 1</p> <p>OSHA Carcinogen: not listed</p> <p>NTP Rating: not listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0262</p>
Ethyl acetate:	<p>TSCA Inventory: listed</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0260</p>
Titanium dioxide:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status: IARC Rating: Group 2B</p> <p>OSHA Carcinogen: not listed</p> <p>NTP Rating: not listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0617</p>
Fatty acids, C18-unsaturated, trimers, compound with 9-octadecen-1-amine, (Z)-:	<p>TSCA Inventory: listed; UVCB</p>
Butanone:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Hazardous Air Pollutants: yes</p> <p>CAA SOCMI Chemical: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Waste Code U159, D035; Reg. Level 200.0 mg/L</p> <p>RCRA Groundwater Monitoring: listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0069*</p>
Fatty acids, tall-oil, compds. with oleylamine:	<p>TSCA Inventory: listed; UVCB</p>

Maleic anhydride:

TSCA Inventory: listed  
Clean Air Act:  
CAA Hazardous Air Pollutants: yes  
CAA SOCM Chemical: yes  
Clean Water Act:  
CWA Hazardous Substances: Category D; RQ 5000.0 lbs  
Other Environmental Laws:  
CERCLA: RQ 5000 lbs.  
RCRA Hazardous Wastes: Waste Code U147  
SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis  
<=1.0 %; Thresholds 25000/10000 lbs  
NIOSH Recommendations:  
Occupational Health Guideline: 0376

Dimethyl ether:

TSCA Inventory: listed  
Clean Air Act:  
CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis  
for listing = f  
CAA SOCM Chemical: yes

Propane:

TSCA Inventory: listed  
Clean Air Act:  
CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis  
for listing = f  
NIOSH Recommendations:  
Occupational Health Guideline: 0524

Butane:

TSCA Inventory: listed  
Clean Air Act:  
CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis  
for listing = f  
NIOSH Recommendations:  
Occupational Health Guideline: 0068\*

Isobutane:

TSCA Inventory: listed  
Clean Air Act:  
CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis  
for listing = f  
NIOSH Recommendations:  
Occupational Health Guideline: 0350\*

### National regulations - U.S. State Regulations

Ethyl acetate: New York Right-To-Know: listed  
Butanone: New York Right-To-Know: listed  
Maleic anhydride: New York Right-To-Know: listed

### Further regulations, limitations and legal requirements

No data available

## 16. Other information

Text for labeling:

Contains 25 - 50 % Ethanol, 5 - 10 % Ethyl acetate, < 1 % 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, comps. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers, < 1 % Fatty acids, C18-unsaturated, trimers, compound with 9-octadecen-1-amine, (Z)-, < 1 % Butanone, < 1 % Fatty acids, tall-oil, compds. with oleylamine, 0.001 - < 0.1 % Maleic anhydride, 10 - 20 % Dimethyl ether, 5 - 10 % Propane, 5 - 10 % Butane, < 2.5 % Isobutane.

Revision date:

4/10/2026

Date of first version:

4/10/2026

Classification procedure:

Physical hazards: on basis of test data

Health hazards, environmental hazards: calculation method

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	4
PHYSICAL HAZARD	0
	X



### Abbreviations and acronyms:

Acute Toxicity: Acute toxicity  
Aerosol: Aerosol  
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  
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  
DOT: Department of Transportation's Safety Regulations (USA)  
EC: European Community  
EC50: Effective Concentration 50%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
Eye Damage: Eye damage  
Eye Irritation: Eye irritation  
Flammable Gas: Flammable gases  
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  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
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  
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  
QSAR: Quantitative Structure-Activity Relationship  
Respiratory Sensitizer: Sensitisation to the respiratory tract  
Sensitization - skin: Skin sensitisation  
Skin Corrosion: Skin corrosion  
STOT RE: Specific target organ toxicity - repeated exposure  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

### 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.