

1. Identification

Product identifier

Trade name: 636K41 - Spray Multi-Purpose Adhesive

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

General use: Adhesive-Aerosol for orthopedic procedures.
Reserved for industrial and professional use.

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
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
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.
Skin Irritation - Category 2	Causes skin irritation.
Specific Target Organ Toxicity (Single Exposure) - Category 3	May cause drowsiness or dizziness.
Aquatic toxicity - acute - Category 2	Toxic to aquatic life.
Aquatic toxicity - chronic - Category 2	Toxic to aquatic life with long lasting effects.

636K41 - Spray Multi-Purpose Adhesive

Material number 636K41

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Label elements

Symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

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 dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see 'First aid' on this label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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

Vapors may form explosive mixtures with air.
May displace oxygen and cause rapid suffocation.

3. Composition/information on ingredients

Mixtures

Chemical characterization: Blend of active ingredients with propellant

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 74-98-6	Propane	10 - 15 %	Flammable Gas - Category 1. Liquefied Gas. Aquatic toxicity - acute - Category 3.
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	10 - 15 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 115-10-6	Dimethyl ether	7 - 13 %	Flammable Gas - Category 1. Liquefied Gas.
CAS 31393-98-3	Copolymer of alpha- and beta-pinene	5 - 10 %	Aquatic toxicity - chronic - Category 4.
CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	5 - 10 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 109-66-0	Pentane	5 - 10 %	Flammable Liquid - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 106-97-8	Butane	3 - 7 %	Flammable Gas - Category 1. Liquefied Gas. Aquatic toxicity - acute - Category 3.
CAS 75-28-5	Isobutane	1 - 5 %	Flammable Gas - Category 1. Liquefied Gas. Aquatic toxicity - acute - Category 3.
CAS 78-78-4	Isopentane	1 - 3 %	Flammable Liquid - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.

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

Additional information: Contains Resin acids and rosin acids, hydrogenated, esters with glycerol.
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 contaminated clothing and wash it before reuse.

In case of inhalation: Remove person to fresh air and keep comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention if problems persist.

Following skin contact: After contact with skin, wash immediately with soap and plenty of 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. In case of eye irritation 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

Causes skin irritation.
May cause drowsiness or dizziness.

Information to physician

Do not give adrenaline or other stimulants.
Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Extinguishing is to be in accordance with the surrounding fire.

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. Vapors may form explosive mixtures with air.
In case of fire may be liberated: Hydrocarbons, aldehydes, ketone, 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. Move undamaged containers from immediate hazard area if it can be done safely.

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. 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, protective equipment and emergency procedures

Do not breathe spray. Avoid contact with the substance. Eliminate all ignition sources if safe to do so.
If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off 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).
For final cleaning rinse with solvents. Never return spills in original containers for re-use.

Additional information: Use only non-sparking tools.

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 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 the 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 acids or oxidizing agents.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
74-98-6	Propane	USA: IDLH: TWA	2,100 ppm [10% LEL]
		USA: NIOSH: TWA	1,800 mg/m ³ ; 1,000 ppm
		USA: OSHA: TWA	1,800 mg/m ³ ; 1,000 ppm
109-66-0	Pentane	USA: ACGIH: TWA	2,950 mg/m ³ ; 1,000 ppm
		USA: IDLH: TWA	1,500 ppm [10% LEL]
		USA: NIOSH: Ceiling	1,800 mg/m ³ ; 610 ppm
		USA: NIOSH: TWA	350 mg/m ³ ; 120 ppm
		USA: OSHA: TWA	2,950 mg/m ³ ; 1,000 ppm
106-97-8	Butane	USA: ACGIH: TWA	1,000 ppm
		USA: IDLH: TWA	1,600 ppm [>10% LEL]
		USA: NIOSH: TWA	1,900 mg/m ³ ; 800 ppm
75-28-5	Isobutane	USA: ACGIH: TWA	1,000 ppm
		USA: NIOSH: TWA	1,900 mg/m ³ ; 800 ppm
78-78-4	Isopentane	USA: ACGIH: TWA	2,950 mg/m ³ ; 1,000 ppm
		USA: OSHA: TWA	2,950 mg/m ³ ; 1,000 ppm

Appropriate engineering controls

Provide adequate ventilation. This can be achieved with local or room suction.

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 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/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: polyethylene-nylon - Layer thickness: ≥ 0.3 mm Breakthrough time: > 480 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:	Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.
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 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	liquid
Color:	Form: Aerosol colorless
Odor:	Sweetish
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): Not determined UEL (Upper Explosive Limit): Not determined
Flash point/flash point range:	-43.6 °F (propellant)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Viscosity:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	2.36 log K(o/w) (Propane) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 3.45 log K(o/w) (Pentane) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 3.6 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. 3.6 log K(o/w) (Hydrocarbons, C6, isoalkanes, < 5% n-hexane) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapor pressure:	No data available
Density:	approx. 0.7 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Vapors may form explosive mixtures with air.
Ignition temperature:	Not determined

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol.
Chemical stability:	Stable under recommended storage conditions.

Possibility of hazardous reactions:

Vapors may form explosive mixtures with air. Pressurised container: May burst if heated.

Conditions to avoid:

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

Incompatible materials:

Acids, 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.

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

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

ATEmix (calculated, vapor): > 50 mg/L/4h

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

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

Symptoms

Depression of central nervous system.

In case of inhalation: Higher doses may lead to a narcotic effect.

In case of ingestion: Nausea, vomiting, Diarrhea

After contact with skin: Upon direct contact with skin may cause itching and redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

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

Fish toxicity:

LC50: 53.1 mg/L/96h (data obtained by analogy conclusion, e.g. (Q)SAR)

NOEC: 3.6 mg/L/30d (data obtained by analogy conclusion, e.g. (Q)SAR)

Daphnia toxicity:

EC50: 29.7 mg/L/48h (data obtained by analogy conclusion, e.g. (Q)SAR)

NOEC: 1.95 mg/L/30d (data obtained by analogy conclusion, e.g. (Q)SAR)

Algae toxicity:

EC50: 20.6 mg/L/72h (data obtained by analogy conclusion, e.g. (Q)SAR)

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

Fish toxicity:

LL50 Oncorhynchus mykiss: > 13.4 mg/L/96h (OECD 203)

EL10 Oncorhynchus mykiss: 1.38 mg/L/96h (data obtained by analogy conclusion, e.g. (Q)SAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)

NOEC Daphnia magna (Big water flea): 0.17 mg/L/21d (OECD 211)

Algae toxicity:

ErL50 Pseudokirchneriella subcapitata (green algae): > 10 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 (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)

Algae toxicity:

ErL50 Pseudokirchneriella subcapitata (green algae): 55 mg/L/72h (OECD 201)

Information about Pentane (CAS 109-66-0):

Fish toxicity:

LL50 Oncorhynchus mykiss: 10.6 mg/L/96h (data obtained by analogy conclusion, e.g. (Q)SAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 18.5 mg/L/48h (data obtained by analogy conclusion, e.g. (Q)SAR)

Algae toxicity:

ErL50 Pseudokirchneriella subcapitata (green algae): 7.79 mg/L/72h (data obtained by analogy conclusion, e.g. (Q)SAR)

Persistence and degradability

Further details:

Biodegradability:

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

100%/28d (data obtained by analogy conclusion, e.g. (Q)SAR), easily bio-degradable

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

Oxygen consumption: 98%/28d (OECD 301 F), easily bio-degradable

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

Oxygen consumption: 98%/28d (OECD 301 F), easily bio-degradable

Information about Pentane (CAS 109-66-0):

Oxygen consumption: 87%/28d (OECD 301 F), easily bio-degradable

Bioaccumulative potential

Partition coefficient: n-octanol/water:

2.36 log K(o/w) (Propane)

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

3.45 log K(o/w) (Pentane)

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

3.6 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.

3.6 log K(o/w) (Hydrocarbons, C6, isoalkanes, < 5% n-hexane)

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: yes

Transport in bulk according to IMO instruments

No data available

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



SAFETY DATA SHEET

according to HCS 2024 (29 CFR 1910.1200)

636K41 - Spray Multi-Purpose Adhesive

Material number 636K41

Revision date: 11/28/2025
Version: 12.1
Replaces version: 12.0
Language: en-US
Date of print: 5/29/2026

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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: yes
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

Propane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0524</p>
Dimethyl ether:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f</p> <p>CAA SOCM Chemical: yes</p>
Copolymer of alpha- and beta-pinene:	TSCA Inventory: listed
Butadiene, styrene, divinylbenzene polymer:	TSCA Inventory: listed
Pentane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0486</p>
Resin acids and rosin acids, hydrogenated, esters with glycerol:	TSCA Inventory: listed; UVCB
Butane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0068*</p>
Isobutane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0350*</p>
Isopentane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g</p>

National regulations - U.S. State Regulations

No data available

Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labeling: Contains 10 - 15 % Propane, 10 - 15 % Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, 7 - 13 % Dimethyl ether, 5 - 10 % Copolymer of alpha- and beta-pinene, 5 - 10 % Hydrocarbons, C6, isoalkanes, < 5% n-hexane, 5 - 10 % Pentane, 3 - 7 % Butane, 1 - 5 % Isobutane, 1 - 3 % Isopentane.

Revision date: 11/28/2025

Date of first version: 5/4/2011

Reason of change: General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

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:

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
Aspiration Toxicity: Aspiration toxicity
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%
EL50: Effective loading rate 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
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
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
Skin Irritation: Skin irritation
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.