

## 636K40 - Repositionable Spray Adhesive

Material number 636K40

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### 1. Product and company identification

#### Product identifier

Trade name: 636K40 - Repositionable Spray 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  
Postal 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 phone 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. Hazards identification

#### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Form: Aerosol  
Color: colorless  
Odor: sweet  
Classification: Flammable Aerosol - Category 1. Compressed Gas. Skin Irritation - Category 2.  
Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) -  
Category 3. Aquatic toxicity - chronic - Category 3.

Hazard symbols:



Signal word: **Danger**

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**Hazard statements:**

- Extremely flammable aerosol.
- Contains gas under pressure; may explode if heated.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause drowsiness or dizziness.
- Harmful 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 spray.
- Wear protective gloves/protective clothing/eye protection.
- Call a POISON CENTER/doctor if you feel unwell.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 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.  
Higher doses may lead to a narcotic effect.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

**Chemical characterization:** Blend of active ingredients with propellant.  
Contains acrylate polymer (5-10%) and non volatile content (1-5%)

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Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 67-64-1	Acetone	25 - 35 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	7 - 13 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	7 - 13 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 109-66-0	n-Pentane	1 - 5 %	Flammable Liquid - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 78-78-4	i-Pentane	0.5 - 1.5 %	Flammable Liquid - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 106-97-8	n-Butane, pure	10 - 20 %	Flammable Gas - Category 1. Liquefied Gas.
CAS 74-98-6	Propane	10 - 20 %	Flammable Gas - Category 1. Liquefied Gas.
CAS 75-28-5	Isobutane	5 - 10 %	Flammable Gas - Category 1. Liquefied Gas.

### 4. First aid measures

General information:	In case of accident or if you feel unwell, seek medical advice immediately.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. If the casualty has difficulty breathing, call a doctor immediately.
Following skin contact:	Take off contaminated clothing and wash it before reuse. 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. Seek the attention of an ophthalmologist immediately.
After swallowing:	Do not induce vomiting. Rinse mouth and seek medical attention immediately.

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

In case of inhalation: Cough, sneeze, shortage of breath, hoarseness, sore throat.  
After resorption: nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness. Reaction time and coordination may be impaired.  
In case of high vapor concentrations: Causes damage to heart if inhaled. Attention Fatal.  
Symptoms: cardiac arrhythmias, Thoracic oppression.  
After contact with skin:  
Upon direct contact with skin may cause itching and redness. Other symptoms: oedema (swelling).  
Repeated exposure may cause skin dryness or cracking.  
After eye contact:  
redness, swelling of the conjunctive tissues, pain, Risk of corneal clouding.  
vision impairment

### Information to physician

Do not give adrenaline or other stimulants. (Except in case of absolute necessity.)  
No specific antidote known. Treatment methods and measures are determined by the physician's judgement in consultation with the patient.

## 5. Fire fighting measures

Flash point/flash point range:

<= -50.8 °F

Auto-ignition temperature: No data available

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. Pressurised container: May burst if heated.  
Vapors may proceed on the ground over great distances and cause fire and backflashes.  
In case of fire may be liberated: hydrocarbons, Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

Additional information:

Heating causes rise in pressure with risk of bursting.  
Use fine water spray to cool endangered containers.

## 6. Accidental release measures

Personal precautions:

Remove all sources of ignition.  
Provide for good room ventilation, suctioning/venting.  
Do not breathe vapor/aerosol. Avoid contact with the substance.  
Keep unprotected people away. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits.

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). Final cleaning.

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Additional information: Special danger of slipping by leaking/spilling product.

## 7. Handling and storage

### Handling

Advices on safe handling: Use only in well-ventilated areas. Do not breathe vapor/aerosol.  
Avoid contact with skin, eyes, and clothing. When using do not eat, drink or smoke.  
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Air combined with vapors may form potentially explosive mixtures that are heavier than air.  
Keep away from sources of ignition - No smoking. Use only non-sparking tools.  
Protect from direct exposure to sunlight and temperatures exceeding 122 °F.  
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Take precautionary measures against static discharges.  
Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.

Specific use(s) Adhesive-Aerosol for orthopedic procedures.

### Storage

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 heat and direct sunlight.  
Store containers in upright position. Electrical equipment must be explosion protected according to standards. (DIN VDE 0165)

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids.

keep away from Oxidizing agents (e.g. chlorine, Chromic acid).  
Keep away from food, drink and animal feedingstuffs.

Further details: Heating causes rise in pressure with risk of bursting.

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### 8. Exposure controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	USA: ACGIH: STEL USA: ACGIH: TWA USA: IDLH: TWA USA: NIOSH: TWA USA: OSHA: TWA	500 ppm 250 ppm 2,500 ppm 590 mg/m <sup>3</sup> ; 250 ppm 2,400 mg/m <sup>3</sup> ; 1,000 ppm
109-66-0	n-Pentane	USA: ACGIH: TWA USA: IDLH: TWA USA: NIOSH: Ceiling USA: NIOSH: TWA USA: OSHA: TWA	2,950 mg/m <sup>3</sup> ; 1,000 ppm 1,500 ppm [10% LEL] 1,800 mg/m <sup>3</sup> ; 610 ppm 350 mg/m <sup>3</sup> ; 120 ppm 2,950 mg/m <sup>3</sup> ; 1,000 ppm
78-78-4	i-Pentane	USA: ACGIH: TWA USA: OSHA: TWA	2,950 mg/m <sup>3</sup> ; 1,000 ppm 2,950 mg/m <sup>3</sup> ; 1,000 ppm
106-97-8	n-Butane, pure	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
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
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
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift

#### Engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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 antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Fluororubber (Viton) - 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.  
Wear half-mask respirator with combination filter for organic vapors and particles.

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### General hygiene considerations:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools.  
Protect from direct exposure to sunlight and temperatures exceeding 122 °F. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Avoid contact with skin, eyes, and clothing. When using do not eat, drink or smoke. Do not breathe vapor/aerosol. Wash hands before breaks and after work.  
Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

### 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 68 °F and 101.3 kPa: liquid Form: Aerosol Color: colorless
Odor:	sweet
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	<= -50.8 °F
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	0.71 g/mL (active agent)
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

## 10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. 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.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Pressurised container: May burst if heated.

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Conditions to avoid: Do not heat spray cans over 122 °F. Do not force spray can open. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Keep away from sources of ignition - No smoking.

Incompatible materials: No data available

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: 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): 2,000 mg/kg  $\leq$  ATE < 5,000 mg/kg

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

ATEmix (calculated): 2,000 mg/kg  $\leq$  ATE < 5,000 mg/kg

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

ATEmix (calculated): 20 - 50 mg/L

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

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

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: Lack of data.



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### Other information:

#### Information about Acetone:

LD50 Rat, oral: 5,800 mg/kg  
LD50 Rabbit, dermal: > 15,688 mg/kg  
LC50 Rat, inhalative (vapor): 76 mg/L/4h

#### Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:

LD50 Rat, oral: > 16,750 mg/kg  
LD50 Rabbit, dermal: > 3,350 mg/kg  
LC50 Rat, inhalative (vapor): > 259 mg/L/4h

#### Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

LD50 Rat, oral: > 5,840 mg/kg  
LD50 Rabbit, dermal: > 2,920 mg/kg  
LC50 Rat, inhalative (vapor): > 23.3 mg/L/4h

#### Information about acrylate polymer:

LD50 oral (estimated): > 2,000 mg/kg  
LD50 dermal (estimated): > 5,000 mg/kg

#### Information about non volatile content:

LD50 oral: > 34,000 mg/kg  
LD50 dermal (estimated): > 5,000 mg/kg

#### Information about Pentane:

LD50 Rat, oral: > 2,000 mg/kg  
LD50 Rabbit, dermal: 3,000 mg/kg  
LC50 Rat, inhalative (vapor): > 18 mg/L/4h

#### Information about 2-Methylbutane:

LD50 Rat, oral: > 2,000 mg/kg  
LD50 Rabbit, dermal: 3,000 mg/kg  
LC50 Rat, inhalative (vapor): > 18 mg/L/4h

#### Information about Butane:

LC50 Rat, inhalative (gas): 277,000 ppm

#### Information about Propane:

LC50 Rat, inhalative (gas): > 200,000 ppm

#### Information about Isobutane:

LC50 Rat, inhalative (gas): 276,000 ppm

## Symptoms

In case of inhalation: Cough, sneeze, shortage of breath, hoarseness, sore throat.

After resorption: nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness. Reaction time and coordination may be impaired.

In case of high vapor concentrations: Causes damage to heart if inhaled. Attention Fatal.

Symptoms: cardiac arrhythmias, Thoracic oppression.

After contact with skin:

Upon direct contact with skin may cause itching and redness. Other symptoms: oedema (swelling).

Repeated exposure may cause skin dryness or cracking.

After eye contact:

redness, swelling of the conjunctive tissues, pain, Risk of corneal clouding.  
vision impairment

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### 12. Ecological information

#### Ecotoxicity

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

Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:

Fish toxicity:

LL50 Oncorhynchus mykiss: 18.27 mg/L/96h (QSAR)

NOELR Oncorhynchus mykiss: 4.089 mg/L/28d (QSAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 31.9 mg/L/48h (QSAR)

NOELR Daphnia magna (Big water flea): 7.138 mg/L/21d (QSAR)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 13.56 mg/L/72h (QSAR)

NOELR Pseudokirchneriella subcapitata (green algae): 3.034 mg/L/72h (QSAR)

Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Fish toxicity:

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

NOELR Oncorhynchus mykiss: 1.534 mg/L/28d (QSAR)

Daphnia toxicity:

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

NOELR Daphnia magna (Big water flea): 1 mg/L/21d (OECD 211)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 10-30 mg/L/72h (OECD 201)

NOELR Pseudokirchneriella subcapitata (green algae): 6.3 mg/L/72h (OECD 201)

#### Mobility in soil

No data available

#### Persistence and degradability

Further details: No data available

#### Additional ecological information

Volatile organic compounds (VOC): 90 % by weight / 639 g/L

General information: Special benzine:

Danger to drinking water when soaking into the soil or waters.

Do not allow to penetrate into soil, waterbodies or drains.

### 13. Disposal considerations

#### Product

Recommendation: Do not open with force or incinerate, even when empty.  
Dispose of as hazardous waste. Dispose of waste according to applicable legislation.

#### Package

Recommendation: Empty carefully and completely, if possible.  
Dispose of waste according to applicable legislation.

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### 14. Transport information

#### UN number

ADR/RID, IMDG, IATA-DGR:

UN 1950

#### UN proper shipping name

ADR/RID, IMDG:

UN 1950, AEROSOLS

IATA-DGR:

UN 1950, AEROSOLS, FLAMMABLE

#### Transport hazard class(es)

ADR/RID:

Class 2, Code: 5F

IMDG:

Class 2.1, Subrisk -

IATA-DGR:

Class 2.1



#### Packing group

ADR/RID, IATA-DGR:

not applicable

IMDG:

-

#### Environmental hazards

Marine pollutant:

no

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

No data available

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

Identification number:

UN1950

Proper shipping name:

UN 1950, AEROSOLS

Hazard class or Division:

2.1

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



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### Sea transport (IMDG)

UN number: UN 1950  
Proper shipping name:: UN 1950, AEROSOLS  
Class or division, Subsidiary risk: Class 2.1, Subrisk -  
Packing Group: -  
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)

UN/ID number: UN 1950  
Proper shipping name:: UN 1950, AEROSOLS, FLAMMABLE  
Class or division, Subsidiary risk: Class 2.1  
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

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### 15. Regulatory information

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

Acetone:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA SOCM Chemical: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Code U002</p> <p>RCRA Groundwater Monitoring: Methods 8240 / PQL 100</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0004*</p>
n-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>
i-Pentane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g</p>
n-Butane, pure:	<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>
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>
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>

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

Acetone:	<p>California Prop 65 List: None</p> <p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 89 - EL: 119 - OEL: 1780</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9</p> <p>Minnesota Haz. Substance: Codes: AON - Ratings: 7.16 - Status: Title III</p> <p>New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg</p>
n-Butane, pure:	<p>Delaware Air Quality Management List: DRQ: F 1000** - RQ State: State requirements differs from Federal</p> <p>Massachusetts Haz. Substance codes: 4,5,6</p> <p>Minnesota Haz. Substance: Codes: A - Ratings: - - Status: Title III</p> <p>New Jersey RTK Hazardous Substance: DOT: 1011 - Sub No.: 0273 - TPQ: -</p> <p>Pennsylvania Haz. Substance code: -</p> <p>Washington Air Contaminant: TWA: 800 ppm - 1900 mg</p>

## 16. Other information

Text for labeling: Contains 25 - 35 % Acetone, 7 - 13 % Hydrocarbons, C6, isoalkanes, < 5% n-hexane, 7 - 13 % Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, 1 - 5 % n-Pentane, 0.5 - 1.5 % i-Pentane, 10 - 20 % n-Butane, pure, 10 - 20 % Propane, 5 - 10 % Isobutane. Safety data sheet available on request.

38 percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

3 percent of the mixture consists of components of unknown hazards to the aquatic environment.

Hazard rating systems:



NFPA Hazard Rating:  
Health: 2 (Moderate)  
Fire: 4 (Severe)  
Reactivity: 0 (Minimal)

HMIS Version III Rating:  
Health: 2 (Moderate)  
Flammability: 4 (Severe)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	0
	X

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 - 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

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CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
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 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%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
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  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
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

Reason of change: General revision

Date of first version: 1/6/2021

### 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.