

636K40 - Repositionable Spray Adhesive

Material number 636K40

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1 Identification

Product identifier

Trade name: 636K40 - Repositionable Spray Adhesive

Recommended use and restrictions on use

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

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

Email: 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 telephone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2 Hazard identification

Classification

Aerosol 1	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irritation 2	Causes skin irritation.
Eye Irritation 2A	Causes serious eye irritation.
Specific Target Organ Toxicity (Single Exposure) 3	May cause drowsiness or dizziness.
Aquatic toxicity - chronic 3	Harmful to aquatic life with long lasting effects.

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Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Pressurised container: May burst 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.

Other hazards known to the supplier with respect to the product

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

Mixture

Chemical name:

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

Hazardous ingredients:

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

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

4 First-aid measures

Description of necessary 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.
In case of swallowing:	Do not induce vomiting. Rinse mouth and seek medical attention immediately.
In case of 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.
In case of 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.

Most important symptoms and effects, whether acute or 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 vapour 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

Indication of immediate medical attention and special treatment needed, if necessary

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

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Extinguishing is to be in accordance with the surrounding fire.

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

Extremely flammable aerosol. Pressurised container: May burst if heated.

vapours 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.

Special protective equipment and precautions for fire-fighters

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, protective equipment and emergency procedures

Remove all sources of ignition.

Provide for good room ventilation, suctioning/venting.

Do not breathe vapour/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.

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Methods and material for containment and cleaning 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.

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

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Use only in well-ventilated areas. Do not breathe vapour/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 vapours 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 50 °C. 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.

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 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.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	Canada: Alberta, OEL 15 min	1,800 mg/m ³ ; 750 ppm
		Canada: Alberta, OEL 8 hour	1,200 mg/m ³ ; 500 ppm
		Canada: BC, OEL STEL	500 ppm
		Canada: BC, OEL TWA	250 ppm
		Canada: Québec, VECD	500 ppm
		Canada: Québec, VEMP	250 ppm
109-66-0	n-Pentane	Canada: Alberta, OEL 8 hour	1,770 mg/m ³ ; 600 ppm
		Canada: BC, OEL TWA	1,000 ppm
		Canada: Québec, VEMP	1,000 ppm
78-78-4	i-Pentane	Canada: Alberta, OEL 8 hour	1,770 mg/m ³ ; 600 ppm
		Canada: BC, OEL TWA	1,000 ppm
		Canada: Québec, VEMP	1,000 ppm
106-97-8	n-Butane, pure	Canada: Alberta, OEL 8 hour	1,000 ppm
		Canada: BC, OEL STEL	1,000 ppm
		Canada: Québec, VEMP	1,900 mg/m ³ ; 800 ppm
74-98-6	Propane	Canada: Alberta, OEL 8 hour	1,000 ppm
75-28-5	Isobutane	Canada: BC, OEL STEL	1,000 ppm
		Canada: Québec, VECD	1,000 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

Appropriate engineering controls

Provide adequate ventilation.

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

Individual protection measures, such as personal protective equipment

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Wear half-mask respirator with combination filter for organic vapours and particles.

Hand protection: 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.

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.

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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 50 °C. 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 vapour/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

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Form: Aerosol colourless
Odour:	sweet
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	<= -46 °C
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Water solubility:	insoluble
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	0.71 g/mL (active agent)
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Additional information: No data available

10 Stability and reactivity

Reactivity: Extremely flammable aerosol.
Air combined with vapours may form potentially explosive mixtures that are heavier than air. vapours may proceed on the ground over great distances and cause fire and backflashes.

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Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Pressurised container: May burst if heated.
Conditions to avoid:	Do not heat spray cans over 50 °C. 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.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

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

ATEmix (calculated): 2,000 mg/kg <= ATE < 5,000 mg/kg

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

ATEmix (calculated): 2,000 mg/kg <= 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 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation 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) 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 (vapour): 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 (vapour): > 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 (vapour): > 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 (vapour): > 18 mg/L/4h

Information about 2-Methylbutane (i-Pentane):

LD50 Rat, oral: > 2,000 mg/kg
LD50 Rabbit, dermal: 3,000 mg/kg
LC50 Rat, inhalative (vapour): > 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 vapour 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)

Persistence and degradability

Further details: No data available

Bioaccumulative potential

Partition coefficient — n-octanol/water:
No data available

Mobility in soil

No data available

Other adverse effects

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

13 Disposal considerations

Waste treatment methods

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

TDG: UN1950
IMDG, IATA-DGR: UN 1950

UN proper shipping name

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

Transport hazard class

TDG: 2.1 (6.1)
IMDG: Class 2.1, Subrisk -
IATA-DGR: Class 2.1

Packing group

TDG, IATA-DGR: not applicable
IMDG: -

Environmental hazards

Marine pollutant: no



Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Special Provisions: 80
Explosive limit and limited quantity index: 0.125 L
Passenger carrying road or rail index: 75 L

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

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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 - Canada

Acetone: DSL: listed
n-Pentane: DSL: listed
i-Pentane: DSL: listed
n-Butane, pure: DSL: listed
Propane: DSL: listed
Isobutane: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains: Acetone
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.

Revision date: 17/12/2025

Date of first version: 3/5/2011

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

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Abbreviations and acronyms:

Aerosol: Aerosol
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
DSL: Domestic Substances List
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
Skin Irritation: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TDG: Transportation of Dangerous Goods Regulation in Canada
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.