

634A67 - Thinner for Neopren Adhesive 636W65

Material number 634A67

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1. Product and company identification

Product identifier

Trade name: 634A67 - Thinner for Neopren Adhesive 636W65

This safety data sheet pertains to the following products:
634A67=0.700 = Verdünnung für 636W65

Recommended use and restrictions on use

General use: Solvent mixture: Thinner and Cleaning agent for orthopedic procedures.
For professional use only.

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

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

WWW: www.ottobock.ca

E-mail: info.canada@ottobock.com

Telephone: (800) 665-3327

Telefax: (800) 463-3659

Department responsible for information:

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

Additional information:

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

Emergency phone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2. Hazards identification

Emergency overview

Appearance: Form: liquid

Color: clear

Odor: characteristic

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

Hazard symbols:



Signal word: **Danger**

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Hazard statements:

- Highly flammable liquid and vapor.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause drowsiness or dizziness.
- Very 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.
- Avoid breathing vapors.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Call a POISON CENTER/doctor if you feel unwell.
- Do NOT induce vomiting.

Regulatory status

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

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Mixture of solvents

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Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 110-82-7	Cyclohexane	25 - 50 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 1 (M-factor = 1).
CAS 141-78-6	Ethyl acetate	10 - 25 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 67-64-1	Acetone	10 - 25 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 92112-69-1	Hexane, branched and linear	5 - 10 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 142-82-5	n-Heptane	5 - 10 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - acute 1. Aquatic toxicity - chronic 1.
CAS 78-93-3	Butanone	< 5 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 110-54-3	n-Hexane	< 2.5 %	Flammable Liquid 2. Skin Irritation 2. Reproductive toxicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 2. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.

4. First aid measures

General information:	Take off immediately all contaminated clothing.
In case of inhalation:	Provide fresh air. Seek medical aid in case of troubles. Move victim to fresh air, put at rest and loosen restrictive clothing. If victim is at risk of losing consciousness, position and transport on their side.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Consult a doctor if skin irritation persists.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Do NOT induce vomiting. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

In case of inhalation: Vapors may cause drowsiness and dizziness.
In case of ingestion: May be fatal if swallowed and enters airways.
After contact with skin: Irritant.
Repeated exposure may cause skin dryness or cracking.
After eye contact: Irritant.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

-20 °C

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air.

Highly flammable liquid and vapor. On heating or in case of fire toxic gases may form.

In case of fire may be liberated: Carbon monoxide and carbon dioxide

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus.

Additional information:

In case of fire and/or explosion do not breathe fumes.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

Personal precautions:

Wear appropriate protective equipment. Keep unprotected people away.

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray.

Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to enter drains, basements or pits.

Discharge into the environment must be avoided.

In case of release, notify competent authorities.

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance.

Provide adequate ventilation.

Additional information:

Remove all sources of ignition.

7. Handling and storage

Handling

Advices on safe handling:

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

Use local exhaust in the field of the processing equipment.

Do not breathe vapors.

Wear appropriate protective equipment.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

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Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry. Keep away from heat.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
110-82-7	Cyclohexane	Canada: OEL 8 hour	344 mg/m ³ ; 100 ppm
		Canada: OEL TWA	100 ppm
		Canada: VEMP	1,030 mg/m ³ ; 300 ppm
		USA: ACGIH: TWA	344 mg/m ³ ; 100 ppm
		USA: IDLH: TWA	1,300 ppm [10% LEL]
		USA: NIOSH: TWA	1,050 mg/m ³ ; 300 ppm
		USA: OSHA: TWA	1,050 mg/m ³ ; 300 ppm
141-78-6	Ethyl acetate	Canada: OEL 8 hour	1,440 mg/m ³ ; 400 ppm
		Canada: OEL TWA	150 ppm
		Canada: VEMP	1,440 mg/m ³ ; 400 ppm
		USA: ACGIH: TWA	1,440 mg/m ³ ; 400 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: TWA	1,400 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	1,400 mg/m ³ ; 400 ppm
67-64-1	Acetone	Canada: OEL 15 min	1,800 mg/m ³ ; 750 ppm
		Canada: OEL 8 hour	1,200 mg/m ³ ; 500 ppm
		Canada: OEL STEL	500 ppm
		Canada: OEL TWA	250 ppm
		Canada: VECD	500 ppm
		Canada: VEMP	250 ppm
		USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: IDLH: TWA	2,500 ppm
		USA: NIOSH: TWA	590 mg/m ³ ; 250 ppm
		USA: OSHA: TWA	2,400 mg/m ³ ; 1,000 ppm
92112-69-1	Hexane, branched and linear	Canada: OEL 15 min	3,500 mg/m ³ ; 1,000 ppm
		Canada: OEL 8 hour	1,760 mg/m ³ ; 500 ppm
		Canada: OEL TWA	200 ppm
		Canada: VECD	3,500 mg/m ³ ; 1,000 ppm
		Canada: VEMP	1,760 mg/m ³ ; 500 ppm
		USA: ACGIH: TWA	100 ppm
			(may be absorbed through the skin)
		USA: NIOSH: Ceiling	1,800 mg/m ³ ; 510 ppm
		USA: NIOSH: TWA	350 mg/m ³ ; 100 ppm

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CAS No.	Designation	Type	Limit value
142-82-5	n-Heptane	Canada: OEL 15 min	2,050 mg/m ³ ; 500 ppm
		Canada: OEL 8 hour	1,640 mg/m ³ ; 400 ppm
		Canada: OEL STEL	500 ppm
		Canada: OEL TWA	400 ppm
		Canada: VECD	500 ppm
		Canada: VEMP	400 ppm
		USA: ACGIH: STEL	400 ppm
		USA: ACGIH: TWA	200 ppm
		USA: IDLH: TWA	750 ppm
		USA: NIOSH: Ceiling	1,800 mg/m ³ ; 440 ppm
		USA: NIOSH: TWA	350 mg/m ³ ; 85 ppm
		USA: OSHA: TWA	2,000 mg/m ³ ; 500 ppm
78-93-3	Butanone	Canada: OEL 15 min	885 mg/m ³ ; 300 ppm
		Canada: OEL 8 hour	590 mg/m ³ ; 200 ppm
		Canada: OEL STEL	100 ppm
			(may be absorbed through the skin)
		Canada: OEL TWA	50 ppm
			(may be absorbed through the skin)
		Canada: VECD	300 mg/m ³ ; 100 ppm
		Canada: VEMP	150 mg/m ³ ; 50 ppm
		USA: ACGIH: STEL	150 ppm
			(may be absorbed through the skin)
		USA: ACGIH: TWA	75 ppm
			(may be absorbed through the skin)
		USA: IDLH: TWA	3,000 ppm
110-54-3	n-Hexane	USA: NIOSH: STEL	885 mg/m ³ ; 300 ppm
		USA: NIOSH: TWA	590 mg/m ³ ; 200 ppm
		USA: OSHA: TWA	590 mg/m ³ ; 200 ppm
		Canada: OEL 8 hour	176 mg/m ³ ; 50 ppm
			(may be absorbed through the skin)
		Canada: OEL TWA	20 ppm
			(may be absorbed through the skin)
		Canada: VEMP	176 mg/m ³ ; 50 ppm
			(may be absorbed through the skin)
		USA: ACGIH: TWA	176 mg/m ³ ; 50 ppm
			(may be absorbed through the skin)
		USA: IDLH: TWA	1,100 ppm [10% LEL]
		USA: NIOSH: TWA	180 mg/m ³ ; 50 ppm
		USA: OSHA: TWA	1,800 mg/m ³ ; 500 ppm

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Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
110-82-7	Cyclohexane	USA: ACGIH-BEI, urine	50 mg/g creatinine	1,2-Cyclohexane diol	end of shift at end of work week
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift
78-93-3	Butanone	USA: ACGIH-BEI, urine	2 mg/L	MEK	end of exposure or end of shift
110-54-3	n-Hexane	USA: ACGIH-BEI, urine	0.5 mg/L	2,5-Hexanedion	end of exposure or end of shift

Engineering controls

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

Avoid the formation of aerosol.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003. Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.

Solvent resistant protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber-Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Use filter type AX (= against vapors of low boiling organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

In case of prolonged or repeated exposures: use self-contained breathing apparatus.

General hygiene considerations:

Do not breathe gas/fume/vapor/spray.

Avoid contact with skin and eyes.

Take off immediately all contaminated clothing.

Keep away from food, drink and animal feedingstuffs.

Have eye washing bottle available.

Wash hands before breaks and after work.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Form: liquid

Color: clear

Odor: characteristic

Odor threshold: No data available

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pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	70 °C
Flash point/flash point range:	-20 °C
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 13.00 Vol-%
Vapor pressure:	at 20 °C: 247 hPa
Vapor density:	No data available
Density:	at 20 °C: 0.785 g/mL
Water solubility:	at 20 °C: slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No data available
Explosive properties:	Product is not explosive. Vapors form explosive mixtures with air.
Ignition temperature:	215 °C
Solvent content:	100 %

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor.
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions:	Vapors may form explosive mixtures with air.
Conditions to avoid:	Keep away from heat. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Incompatible materials:	No data available
Hazardous decomposition products:	On heating or in case of fire toxic gases may form. In case of fire may be liberated: Carbon monoxide and carbon dioxide
Thermal decomposition:	No data available

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11. Toxicological information

Toxicological tests

<p>Toxicological effects:</p> <p>Acute toxicity (oral): Lack of data.</p> <p>Acute toxicity (dermal): Lack of data.</p> <p>Acute toxicity (inhalative): Lack of data.</p> <p>Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Lack of data.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data.</p> <p>Carcinogenicity: Lack of data.</p> <p>Reproductive toxicity: Lack of data.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.</p> <p>Specific target organ toxicity (repeated exposure): Lack of data.</p> <p>Aspiration hazard: Aspiration Toxicity 1 = May be fatal if swallowed and enters airways.</p>	
<p>After eye contact:</p>	<p>Irritant.</p>
<p>Other information:</p>	<p>Not known to cause sensitization.</p> <p>Cyclohexane: LD50 Rat, oral: 1297 mg/kg; LC50 Rat, inhalative: 14 mg/l/4h</p> <p>Ethyl acetate: LC50 Rat, inhalative: 1600 ppm/8h</p> <p>Acetone: LC50 Rat, inhalative: 76 mg/l/4h</p>

Symptoms

In case of inhalation: Vapors may cause drowsiness and dizziness.

In case of ingestion: May be fatal if swallowed and enters airways.

After contact with skin: Irritant.

Repeated exposure may cause skin dryness or cracking.

After eye contact: Irritant.

12. Ecological information

Ecotoxicity

<p>Aquatic toxicity:</p>	<p>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
<p>Further details:</p>	<p>Avoid spills and leaks. Very small amounts contaminates drinking water.</p>

Mobility in soil

No data available

Persistence and degradability

<p>Further details:</p>	<p>No data available</p>
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Additional ecological information

Volatile organic compounds (VOC):

100 % by weight / 785 g/L

General information:

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

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Package

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:

UN 1993

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1993, FLAMMABLE LIQUID, N.O.S. (Cyclohexane, Acetone and Ethyl acetate)

Transport hazard class(es)

ADR/RID:

Class 3, Code: F1

IMDG:

Class 3, Subrisk -

IATA-DGR:

Class 3

Packing group

ADR/RID, IMDG, IATA-DGR:

II

Environmental hazards

Marine pollutant:

yes

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

No data available



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USA: Department of Transportation (DOT)

Identification number: UN1993
Proper shipping name: UN 1993, FLAMMABLE LIQUIDS, N.O.S.
(Cyclohexane, Acetone and Ethyl acetate)
Hazard class or Division: 3
Packing Group: II
Labels: 3
Symbols: G
Special Provisions: IB2, T7, TP1, TP8, TP28
Packaging – Exceptions: 150
Packaging – Non-bulk: 202
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 5 L
Quantity limitations – Cargo only: 60 L
Vessel stowage – Location: B



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1993
Shipping name: UN 1993, Flammable liquid, n.o.s.
(Cyclohexane, Acetone and Ethyl acetate)
TDG class: 3
Packing group: II
Special provisions: 16, 150
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 5 L
Marine pollutant: P

Sea transport (IMDG)

UN number: UN 1993
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.
(Cyclohexane, Acetone and Ethyl acetate)
Class or division, Subsidiary risk: Class 3, Subrisk -
Packing Group: II
EmS: F-E, S-E
Special Provisions: 274
Limited quantities: 1 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: -
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T7
Tank instructions - Provisions: TP1, TP8, TP28
Stowage and handling: Category B.
Properties and observations: -
Marine pollutant: yes
Segregation group: none



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Air transport (IATA)

UN/ID number:	UN 1993
Proper shipping name::	UN 1993, FLAMMABLE LIQUID, N.O.S. (Cyclohexane, Acetone and Ethyl acetate)
Class or division, Subsidiary risk:	Class 3
Packing Group:	II
Hazard label:	Flamm. liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisions:	A3
Emergency Response Guide-Code (ERG):	3H

15. Regulatory information

National regulations - Canada

Cyclohexane:	DSL: listed
Ethyl acetate:	DSL: listed
Acetone:	DSL: listed
n-Heptane:	DSL: listed
Butanone:	DSL: listed
n-Hexane:	DSL: listed

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National regulations - U.S. Federal Regulations

Cyclohexane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA SOCM Chemical: yes</p> <p>Clean Water Act:</p> <p>CWA Hazardous Substances: RQ 1000 lbs.</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 1000 lbs.</p> <p>RCRA Hazardous Wastes: Code U056</p> <p>SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0163</p>
Ethyl acetate:	<p>TSCA Inventory: listed</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Code U112</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0260</p>
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-Heptane:	<p>TSCA Inventory: listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0312</p>
Butanone:	<p>TSCA Inventory: listed</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Code U159</p> <p>RCRA Groundwater Monitoring: Methods 8015, 8240 / PQL 10, 100</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0069*</p>
n-Hexane:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA Hazardous Air Pollutants: yes</p> <p>CAA SOCM Chemical: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0322</p>

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National regulations - U.S. State Regulations

Cyclohexane:	<p>California Proposition 65 code: none Delaware Air Quality Management List: DRQ: 1000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 52,5 - EL: 70 - OEL: 1050 - Title 586: - Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 20000 Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9 Minnesota Haz. Substance: Codes: AO - Ratings: 7.94 - Status: Title III. TRI. New Jersey RTK Hazardous Substance: DOT: 1145 - Sub No.: 0565 - TPQ: - New York List of Hazardous Substances: RQ-Air: 1000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 300 ppm - 1050 mg</p>
Ethyl acetate:	<p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 70 - EL: 93,3 - OEL: 1400 - Title 586: - Main Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 20000 Massachusetts Haz. Substance codes: 2,4,5,6 F8 Minnesota Haz. Substance: Codes: AO - Ratings: 6.83 - Status: Title III. New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 400 ppm - 1400 mg</p>
Acetone:	<p>California Prop 65 List: None Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 89 - EL: 119 - OEL: 1780 Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9 Minnesota Haz. Substance: Codes: AON - Ratings: 7.16 - Status: Title III New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg</p>

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n-Heptane:	<p>California Proposition 65 code: not listed</p> <p>Idaho Air Pollutant List: Title 585: AAC: 82 - EL: 109 - OEL: 1640 - Title 586: - Massachusetts Haz. Substance codes: 2,4,5,6 Minnesota Haz. Substance: Codes: ANO - Ratings: - Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 400 ppm - 1600 mg - STEL: 500 ppm - 2000 mg</p>
Butanone:	<p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585/Title 586: - Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9 Minnesota Haz. Substance: Codes: ANO - Ratings: 9.7 - Status: Air Pollutant Title III. TRI. New Jersey RTK Hazardous Substance: DOT: 1193 - Sub No.: 1258 - TPQ: - New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 200 ppm - 590 mg - STEL: 300 ppm - 885 mg</p>
n-Hexane:	<p>California Proposition 65: cancer</p> <p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 9 - EL: 12 - OEL: 180 - Title 586: - Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 2000 Massachusetts Haz. Substance codes: 2,4,5,6 Minnesota Haz. Substance: Codes: ANO - Ratings: 9.57 - Status: Air Pollutant Title III. TRI. New Jersey RTK Hazardous Substance: DOT: 1208 - Sub No.: 1340 - TPQ: - New York List of Hazardous Substances: RQ-Air: 1 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 50 ppm - 180 mg</p>

National regulations - EC member states

Further regulations, limitations and legal requirements:

Acetone:	<p>Regulation (EU) 2019/1148 (marketing and use of explosives precursors): listed REGULATION (EC) 273/2004 (Drug precursors): Category 3 REGULATION (EC) 111/2005 (Trade with drug precursors): Category 3</p>
Butanone:	<p>REGULATION (EC) 273/2004 (Drug precursors): Category 3 REGULATION (EC) 111/2005 (Trade with drug precursors): Category 3</p>

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16. Other information

Text for labeling:

Contains 25 - 50 % Cyclohexane, 10 - 25 % Ethyl acetate, 10 - 25 % Acetone, 5 - 10 % Hexane, branched and linear, 5 - 10 % n-Heptane, < 5 % Butanone, < 2.5 % n-Hexane. Contains Cyclohexane, Ethyl acetate, Acetone, Hexane, branched and linear, n-Heptane

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)
Fire: 3 (Serious)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)
Flammability: 3 (Serious)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	3
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 - 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
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Flammable Liquid: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
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
M-factor: Multiplication factor
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Reproductive toxicity: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irritation: Skin irritation
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
WHMIS: Workplace Hazardous Materials Information System

Reason of change:

Changes in section 8: Occupational exposure limit values

Date of first version:

12/6/1999

Department issuing data sheet

Contact person:

see section 1: Department responsible for information



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

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Material number 634A67

Revision date: 7/2/2025
Version: 13.3
Replaces version: 13.2
Language: en-CA, US
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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.