

1 Identification

Product identifier

Trade name: 634A6 - Thinner for Contact Cement

Recommended use and restrictions on use

General use: Solvent, Thinner 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

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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

Flammable Liquid 2

Skin Irritation 2

Eye Irritation 2A

Reproductive toxicity 2

Specific Target Organ Toxicity (Single Exposure) 3

Specific Target Organ Toxicity (Repeated Exposure) 2

Aspiration Toxicity 1

Aquatic toxicity - chronic 2

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Toxic to aquatic life with long lasting effects.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.
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 breathe vapours.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a doctor if you feel unwell.
Do NOT induce vomiting.

Other hazards known to the supplier with respect to the product

vapours may form explosive mixtures with air.
In case of inhalation: Short term effect: A concentration that is hazardous to health occurs rapidly. Long exposure to vapour-enriched air may cause serious damage with lasting side effects.

3 Composition/Information on ingredients

Mixture

Chemical name:

Mixture of solvents

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Naphtha (petroleum), hydrotreated light, butadiene-free	25 - 50 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 79-20-9	Methyl acetate	25 - 50 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 108-88-3	Toluene	10 - 25 %	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.

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

4 First-aid measures

Description of necessary first-aid measures

In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow victim to become chilled. Keep victim warm. Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention.
In case of swallowing:	Have victim drink large quantities of water, with active charcoal if possible. Immediately get medical attention. Do NOT induce vomiting.
In case of skin contact:	After contact with skin, wash immediately with soap and plenty of water. Take off immediately all contaminated clothing.
In case of eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

May be fatal if swallowed and enters airways.
May cause drowsiness or dizziness.
Prolonged exposure to high concentrations may irritate respiratory system, cause headaches, dizziness and effects of the central nervous system., nausea, unconsciousness, apnea.
Causes serious eye irritation. Causes skin irritation.
Expect absorption through the skin.

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

after ingestion: Attention in case of vomiting and stomach pumping: danger of aspiration. Accelerate intestinal transit. Have victim repeatedly drink large amounts of water with activated charcoal. Finally with sodium sulfate additive. In case of vomiting, lay at least head on side. Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow victim to become chilled. Keep victim warm. Keep airway open. Castor oil and milk are contraindicated.

in case of inhalation: Move victim to fresh air, provide oxygen as needed. On irritation of the respiratory system use an aerosol dispenser and treat with 5 doses of dexamethasone aerosol (e.g. Auxiloson, Thomae) every 10 minutes until symptoms cease. Take measures to prevent pneumonia, infections and other symptoms, in particular acidity-alkalinity.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

Highly flammable liquid and vapour. Liquid evaporates very quickly.

Product is not explosive. vapours may form explosive mixtures with air.

vapour and air form potentially explosive mixture that is hazardous to health. Mixture is heavier than air and will travel great distances at floor level and lead to backflash when exposed to an ignition source.

Heating will lead to pressure increase: danger of bursting and explosion.

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 positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so.

Wear appropriate protective equipment. Keep unprotected people away.

Avoid contact with the substance. Provide adequate ventilation.

Avoid breathing vapours.

Environmental precautions:

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

Methods and material for containment and cleaning up

Seal off. Remove all sources of ignition. Plug leak if safely possible. Seal all low level rooms. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide good ventilation and/or an exhaust system in the work area.

Avoid breathing vapours. Avoid contact with skin and eyes.

Wear appropriate protective equipment.

Do not allow containers to stand open. Store product in a quantity adequate for 1 work-shift only. Provide good ventilation and/or an exhaust system in the work area.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Ground all containers and instruments.

Use only explosion-protected equipment/instruments.

Do not use air pressure to deliver.

liquid: Highly flammable.

vapours: Very highly flammable.

Liquid evaporates very quickly. vapour and air form potentially explosive mixture that is hazardous to health. Mixture is heavier than air and will travel great distances at floor level and lead to backflash when exposed to an ignition source. Ignition by hot surfaces, sparks and open flames.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Take precautionary measures against static discharges.

Keep container dry.

Hints on joint storage:

Do not store together with combustible materials or highly flammable solids.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64742-49-0	Naphtha (petroleum), hydrotreated light, butadiene-free	Canada: BC, OEL TWA	100 ppm
79-20-9	Methyl acetate	Canada: Alberta, OEL 15 min	757 mg/m ³ ; 250 ppm
		Canada: Alberta, OEL 8 hour	606 mg/m ³ ; 200 ppm
		Canada: BC, OEL STEL	250 ppm
		Canada: BC, OEL TWA	200 ppm
		Canada: Québec, VECD	757 mg/m ³ ; 250 ppm
		Canada: Québec, VEMP	606 mg/m ³ ; 200 ppm
108-88-3	Toluene	Canada: Alberta, OEL 8 hour	188 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Canada: BC, OEL TWA	20 ppm
		Canada: Québec, VEMP	20 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
108-88-3	Toluene	USA: ACGIH-BEI, blood	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
		USA: ACGIH-BEI, urine	0.03 mg/L	Toluene in urine	end of exposure or end of shift
		USA: ACGIH-BEI, urine	0.3 mg/g creatinine	o-Cresol in urine	end of exposure or end of shift

Appropriate engineering controls

Use only closed, grounded equipment with this product. Extract vapours by suction at point of emission. Process exhaust through separator/filter as needed.
Product is an excellent solvent for a variety of natural and synthetic resins as well as for oils, fats, and softeners.

Individual protection measures, such as personal protective equipment

Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use filter type A (= against vapours 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/vapour/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: Fluororubber (Viton) or Butyl caoutchouc (butyl rubber) - Layer thickness: 0,7 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 suitable protective clothing.

General hygiene considerations:

Do not breathe vapours.

Avoid contact with skin and eyes.

Keep away from sources of ignition - No smoking.

Take off immediately all contaminated clothing.

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

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	colourless , clear
Odour:	characteristic like organic solvents
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	57 °C
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): 1.00 Vol-% UEL (Upper Explosive Limit): 16.00 Vol-%
Flash point/flash point range:	-25 °C (DIN 53213)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	At normal air pressure, the product may be distilled without decomposition.
pH:	No data available
Kinematic viscosity:	at 20 °C: 10 s (DIN 53211/4)
Water solubility:	at 20 °C: slightly miscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 20 °C: 245 hPa at 50 °C: 920 hPa
Density and/or relative density	at 20 °C: 0.79 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Product is not explosive. vapours may form explosive mixtures with air.
Ignition temperature:	455 °C

10 Stability and reactivity

Reactivity: Highly flammable liquid and vapour.

Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions:	<p>vapours may form explosive mixtures with air.</p> <p>Liquid evaporates very quickly.</p> <p>vapour and air form potentially explosive mixture that is hazardous to health. Mixture is heavier than air and will travel great distances at floor level and lead to backflash when exposed to an ignition source.</p> <p>Heating will lead to pressure increase: danger of bursting and explosion.</p>
Conditions to avoid:	<p>May become electrostatically charged. Take precautionary measures against static discharge.</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p>
Incompatible materials:	No data available
Hazardous decomposition products:	<p>In case of fire may be liberated: Carbon monoxide and carbon dioxide.</p> <p>Contact with water causes product to separate into acetic acid and methyl alcohol.</p>

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

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: Reproductive toxicity 2 = Suspected of damaging the unborn child.

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): Specific Target Organ Toxicity (Repeated Exposure) 2 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Aspiration Toxicity 1 = May be fatal if swallowed and enters airways.

Acute toxicity: LD50 Rabbit, percutan: <= 3,000 mg/kg

Other information: Mild acute toxicity following ingestion, inhalation or absorption through the skin.

Symptoms

In case of inhalation:
Prolonged exposure to high concentrations may irritate respiratory system, cause headaches, dizziness and effects of the central nervous system., nausea, unconsciousness, apnea.
After contact with skin: Repeated exposure may cause skin dryness or cracking.
Expect absorption through the skin.

12 Ecological information

Ecotoxicity

Aquatic toxicity: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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: Incinerate according to applicable local, state and federal regulations.

Package

Recommendation: Dispose of waste according to applicable legislation.

14 Transport information

UN number

TDG: UN1993
IMDG, IATA-DGR: UN 1993

UN proper shipping name

TDG: UN 1993, Flammable liquid, n.o.s.
(Naphtha (petroleum), hydrotreated light, butadiene-free, Methyl acetate)

IMDG, IATA-DGR: UN 1993, FLAMMABLE LIQUID, N.O.S.
(Naphtha (petroleum), hydrotreated light, butadiene-free, Methyl acetate)

Transport hazard class

TDG: 3

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3

Packing group

TDG, IMDG, IATA-DGR: II

Environmental hazards

Marine pollutant: yes



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

Canada: Transportation of Dangerous Goods (TDG)

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)

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

Air transport (IATA)

Proper shipping name:	UN 1993, FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, butadiene-free, Methyl acetate)
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

Naphtha (petroleum), hydrotreated light, butadiene-free:	DSL: listed
Methyl acetate:	DSL: listed
Toluene:	DSL: listed
	Priority Substances List: listed (PSL 1)

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling:	Contains toluene and Naphtha (petroleum), hydrotreated light, butadiene-free
Revision date:	17/12/2025
Date of first version:	19/10/1994
Reason of change:	General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022 General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

Abbreviations and acronyms:

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
DSL: Domestic Substances List
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
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
PSL: Priority Substances List
Reproductive toxicity: Reproductive toxicity
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
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.