

1 Identification

Product identifier

Trade name: 636W22 - UHU Cement

Recommended use and restrictions on use

General use: Adhesive 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

Flammable Liquid 2

Highly flammable liquid and vapour.

Eye Irritation 2A

Causes serious eye irritation.

Specific Target Organ Toxicity (Single Exposure) 3

May cause drowsiness or dizziness.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Avoid breathing vapours.
Wear protective gloves/protective clothing/eye protection.
Call a POISON CENTER/doctor if you feel unwell.
Store in a well-ventilated place. Keep cool.

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.
Special danger of slipping by leaking/spilling product.

3 Composition/Information on ingredients

Mixture

Chemical name: Solvent-containing adhesive on the basis of cellulose nitrate

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 79-20-9	Methyl acetate	50 - 100 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 9004-70-0	Nitrocellulose solutions, with not more than 12,6% nitrogen, by dry mass, and not more than 55% nitrocellulose	25 - 50 %	Flammable Solid 1.
CAS 123-86-4	n-Butyl acetate	2.5 - 10 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3.

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

4 First-aid measures

Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.

In case of swallowing: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

In case of skin contact: 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. Subsequently consult an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

Highly flammable liquid and vapour. vapours form potentially explosive mixtures with air, which are heavier than air. Air-vapour mixture may travel great distances at floor level and lead to backflash when exposed to an ignition source.

In case of fire may be liberated: Nitrogen oxides (NOx), 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:

Heating will lead to pressure increase: danger of bursting and explosion. Cool endangered containers with water spray and, if possible, remove from danger zone.

Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Eliminate all ignition sources if safe to do so.

Avoid breathing mist/vapours/spray. Avoid contact with the substance.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Environmental precautions:

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning 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.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid breathing mist/vapours/spray. Avoid contact with the substance. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Highly flammable liquid and vapour. Ignition by hot surfaces, sparks and open flames.
Take precautionary measures against static discharges.
Keep away from heat. Keep away from sources of ignition.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Store containers in upright position.

Hints on joint storage:

Do not store together with combustible materials or highly flammable solids.
Substances to avoid: Acids, alkalis.
Keep away from food, drink and animal feedingstuffs.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
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
123-86-4	n-Butyl acetate	Canada: Alberta, OEL 15 min	950 mg/m ³ ; 200 ppm
		Canada: Alberta, OEL 8 hour	713 mg/m ³ ; 150 ppm
		Canada: BC, OEL STEL	150 ppm
		Canada: BC, OEL TWA	50 ppm
		Canada: Québec, VECD	150 ppm
		Canada: Québec, VEMP	50 ppm

Appropriate engineering controls

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

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.

Hand protection:	In case of handling larger quantities: protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: butyl caoutchouc (butyl rubber) Layer thickness: 0.6 - 0.8 mm Breakthrough time: 60 - 120 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:	Avoid breathing mist/vapours/spray. Avoid contact with the substance. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

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
Odour:	ester-like
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	57 °C (DIN 53171)
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): 3.10 Vol-% UEL (Upper Explosive Limit): 16.00 Vol-%
Flash point/flash point range:	-10 °C
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Dynamic viscosity:	at 20 °C: 9,000 mPa*s
Solubility:	at 20 °C: various organic solvents
Water solubility:	at 20 °C: immiscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 20 °C: 220 hPa
Density and/or relative density	at 20 °C: 1.11495 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties: vapours may form explosive mixtures with air.
 Ignition temperature: 180 °C
 Solvent content: 68.7 %
 Solid content: 31.3 %

10 Stability and reactivity

Reactivity: Highly flammable liquid and vapour. vapours may form explosive mixtures with air.

Chemical stability: Stable under recommended storage conditions.

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

Conditions to avoid: Take precautionary measures against static discharge.
 Keep away from heat. Keep away from sources of ignition.
 Information about Methyl acetate:
 Contact with water causes product to separate into acetic acid and methyl alcohol.

Incompatible materials: Acids, alkalis

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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

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

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

Other information:

Information about methyl acetate:

LD50 Rat, oral: 6,482 mg/kg (OECD 401)

LD50 Rat, dermal: > 2,000 mg/kg (OECD 402)

LC50 Rabbit, inhalative (vapour): 49,200 mg/m³

Information about n-Butyl acetate:

LD50 Rat, oral: 10,760 mg/kg (OECD 423)

LD50 Rabbit, dermal: 14,112 mg/kg (OECD 402)

Symptoms

Methyl acetate has a narcotic and depressive effect on the central nervous system especially in vapour form. Possible subsequent damage to the optical nerv. Measurably irritates the eyes and respiratory system. In severe cases, pneumonia or a pulmonary edema may develop.

symptoms:

Eye, nose, throat irritation, headache, at higher concentrations dizziness and nausea, unconsciousness and apnea.

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.

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

12 Ecological information

Ecotoxicity

Aquatic toxicity:

Information about methyl acetate:

Fish toxicity:

LC50 Danio rerio (zebrafish): 250 - 350 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 1026.7 mg/L/48h (OECD 202)

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae), growth rate: > 120 mg/L/72h (OECD 201)

Information about n-Butyl acetate:

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 18 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Ceriodaphnia spec.: 44 mg/L/48h (OECD 202)

NOEC Daphnia magna (Big water flea): 23 mg/L/21d (OECD 211, read across)

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae), growth rate: 397 mg/L/72h (OECD 201, read across)

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. Avoid spills and leaks. Very small amounts contaminates drinking water.

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: UN1133
IMDG, IATA-DGR: UN 1133

UN proper shipping name

TDG: UN 1133, adhesives
IMDG, IATA-DGR: UN 1133, ADHESIVES

Transport hazard class

TDG: 3
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3



Packing group

TDG, IMDG, IATA-DGR: II

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)

Explosive limit and limited quantity index: 5L
Passenger carrying road or rail index: 5L

Sea transport (IMDG)

EmS: F-E, S-D
Special Provisions: -
Limited quantities: 5 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: PP1
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP8
Stowage and handling: Category B.
Properties and observations: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.
Marine pollutant: no
Segregation group: none

Air transport (IATA)

Proper shipping name:	UN 1133, ADHESIVES
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):	3L

15 Regulatory information

National regulations - Canada

Methyl acetate:	DSL: listed
Nitrocellulose solutions, with not more than 12,6% nitrogen, by dry mass, and not more than 55% nitrocellulose:	DSL: listed
n-Butyl acetate:	DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling:	Contains methyl acetate
Revision date:	17/12/2025
Date of first version:	27/9/1994
Reason of change:	General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

Abbreviations and acronyms:

AS/NZS: Australian Standards/New Zealand Standards
 CAS: Chemical Abstracts Service
 CFR: Code of Federal Regulations
 CLP: Classification, Labelling and Packaging
 CNS: Central Nervous System
 DMEL: Derived minimal effect level
 DNEL: Derived no-effect level
 DSL: Domestic Substances List
 EC: European Community
 EC50: Effective Concentration 50%
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
 EN: European Standard
 EQ: Excepted quantities
 Eye Irritation: Eye irritation
 Flammable Liquid: Flammable liquid
 Flammable Solid: Flammable solid
 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%
 LEL: Lower Explosion Limit
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 OEL: Occupational Exposure Limit Value
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 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.