

1 Identification

Product identifier

Trade name: 636K3 - Plastic Wood

Other means of identification

This safety data sheet pertains to the following products:

636K3 = Plastisches Holz

Recommended use and restrictions on use

General use: plastic wood filling compound for orthopedic procedures.
For use in industrial installations and professional treatment 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

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 Solid 1

Flammable solid.

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:

Flammable solid.
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.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Call a POISON CENTER/doctor/.../if you feel unwell.

Other hazards known to the supplier with respect to the product

3 Composition/Information on ingredients

Mixture

Chemical name: Mixture of the substances listed below with non-hazardous additions.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 67-64-1	Acetone	30 - 60 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 9004-70-0	Nitrocellulose	5 - 20 %	Flammable Solid 1.

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

Additional information: Contains Titanium dioxide. The maximum workplace exposure limits are, where necessary, listed in section 8.

4 First-aid measures

Description of necessary first-aid measures

General information: Immediately remove any wetted clothing, shoes or stockings.
First aider: Pay attention to self-protection!

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.
If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Do not allow victim to become chilled. Keep victim warm.
If victim is at risk of losing consciousness, position and transport on their side.

In case of swallowing: Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Danger of aspiration!
Immediately get medical attention.

In case of skin contact: Thoroughly wash skin with soap and water. Follow up by applying skin cream.
Seek medical attention if irritation persists.

In case of eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Subsequently seek the immediate attention of an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

In case of inhalation: Do not breathe vapours. Higher doses may have a narcotic effect.
The following symptoms may occur: Headache, dizziness.

After contact with skin:

Prolonged or repeated contact with the product affects the skin's natural oils and induces drying up. This may lead to irritation/dermatitis.

After eye contact: irritant

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

Combat acidosis. Monitor alkali reserves. Monitor breathing. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Attention: several hours latency period.
Treat symptomatically.

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

Flammable solid. In case of fire may be liberated: Titanium dioxide-smoke, Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus to prevent exposure to poisonous gases that may develop.

Additional information:

Use fine water spray to cool endangered containers.

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

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition.

Do not breathe vapours. Wear appropriate protective equipment.

Keep unprotected people away. Provide adequate ventilation.

Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to enter into surface water or drains.

If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Remove all sources of ignition. Provide adequate ventilation.
Take up mechanically, placing in appropriate containers for disposal.

Additional information:

Flammable solid.
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. Ignition by hot surfaces, sparks and open flames.
Potentially explosive mixtures with air may form above water surface.
Product flocculates in water. Parts of the solvent used may dissolve in water.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Do not breathe vapours. Avoid contact with skin and eyes.

Precautions against fire and explosion:

Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Highly flammable vapours.
Forms explosive mixtures with air, also in empty, uncleaned containers.
Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Protect from heat and direct sunlight.
Store container tightly closed in a dry and cool place.

Hints on joint storage:

Do not store together with oxidizing agents. Keep away from alkalis.
Keep away from food, drink and animal feedingstuffs.

Further details:

Steel, stainless steel and aluminium are stable container materials.

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
13463-67-7	Titanium dioxide	Canada: Alberta, OEL 8 hour	10 mg/m ³
		Canada: BC, OEL TWA	10 mg/m ³ (inhalable fraction)
		Canada: BC, OEL TWA	3 mg/m ³ (respirable fraction)
		Canada: Québec, VEMP	10 mg/m ³ (total dust)

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

Explosion protection required. Work only with resistant materials.
Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Individual protection measures, such as personal protective equipment

Respiratory protection: Use filter type AX (= against vapours of low boiling organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
Have a breathing apparatus that is not dependent on the circulating air ready for emergencies. In case of prolonged or repeated exposures: use self-contained breathing apparatus.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber-Layer thickness: 0,35 mm.
Butyl caoutchouc (butyl rubber)-Layer thickness: 0,5 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:
Take off immediately all contaminated clothing.
Do not breathe vapours.
Avoid contact with skin and eyes.
Wash hands before breaks and after work.
When using do not eat, drink or smoke.

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: Form: pasty
Colour: brown
Odour: like ketone
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:

LEL (Lower Explosion Limit): 2.60 Vol-%

UEL (Upper Explosive Limit): 13.00 Vol-%

Flash point/flash point range:

approx. -19 °C

Evaporation rate:

No data available

Auto-ignition temperature:

not self-igniting

Decomposition temperature:

No data available

pH:

No data available

Water solubility:

partially miscible

Partition coefficient — n-octanol/water:

No data available

Vapour pressure:

at 20 °C: 239.5 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:

180 °C

10 Stability and reactivity

Reactivity:

Flammable solid.

Chemical stability:

Stable under recommended storage conditions.

Unsuitable materials: Rubber

Possibility of hazardous reactions:

vapours may form explosive mixtures with air.

Forms explosive mixtures with air, also in empty, uncleaned containers. Concentrated vapours are heavier than air. May become electrostatically charged.

Conditions to avoid:

Protect against heat /sun rays.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharge.

Use explosion-proof electrical/ventilating/lighting equipment.

Incompatible materials:

Strong oxidizing agents

Attacks many plastics and rubbers. On contact with barium hydroxide, sodium hydroxide and many other alkaline materials condensation may occur.

Hazardous decomposition products:

In case of fire may be liberated: Titanium dioxide-smoke, Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

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: Lack of data.

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.

Acute toxicity:

LD50 Rat, oral: (Information about acetone) 5,800 mg/kg

Symptoms

In case of inhalation: Do not breathe vapours. Higher doses may have a narcotic effect.

The following symptoms may occur: Headache, dizziness.

After contact with skin:

Prolonged or repeated contact with the product affects the skin's natural oils and induces drying up. This may lead to irritation/dermatitis.

After eye contact: irritant

General remarks

sensitization: Not known to cause sensitization.

12 Ecological information

Ecotoxicity

Aquatic toxicity:

Information about acetone:

Leuciscus idus test LC0: 6320 - 7900 mg/l - LC 50: 7505 - 11300 mg/l -

LC100: 10670 - 15800 mg/l

Goldfish: LC50/24h: > 5000 mg/l

Acute toxicity values: bacteria: 2,8 - fish: 2,0

Toxic to aquatic organisms.

LD 50 Daphnia magna: 10 mg/l

Toxic concentration limit:

Microcystis aeruginosa 530 mg/l - Entosiphon sulcatum: 28 mg/l

Pseudomonas putida: 1700 mg/l - Scenedesmus quadricauda: 7500 mg/l

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 enter into ground-water, surface water or drains.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Do not dispose of with household waste.
Incinerate according to applicable local, state and federal regulations.

Package

Recommendation: Dispose of waste according to applicable legislation.

14 Transport information

UN number

TDG: UN3175

IMDG, IATA-DGR: UN 3175

UN proper shipping name

TDG, IMDG, IATA-DGR: UN 3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (acetone)

Transport hazard class

TDG: 4.1

IMDG: Class 4.1, Subrisk -

IATA-DGR: Class 4.1



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)

Special Provisions: 16, 56
Explosive limit and limited quantity index: 1 kg
Passenger carrying road or rail index: 15 kg

Sea transport (IMDG)

EmS: F-A, S-I
Special Provisions: 216 274
Limited quantities: 1 kg
Excepted quantities: E2
Package - Instructions: P002
Package - Provisions: PP9
IBC - Instructions: IBC06
IBC - Provisions: B21
Tank instructions - IMO: -
Tank instructions - UN: T3, BK2
Tank instructions - Provisions: TP33
Stowage and handling: Category B.
Properties and observations: Mixtures of non-dangerous solids (such as soil, sand, production materials etc.) and flammable liquids.
Marine pollutant: no
Segregation group: none

Air transport (IATA)

Proper shipping name: UN 3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (acetone)
Hazard label: Flamm. solid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y441 - Max. Net Qty/Pkg. 5 kg
Passenger and Cargo Aircraft: Pack.Instr. 445 - Max. Net Qty/Pkg. 15 kg
Cargo Aircraft only: Pack.Instr. 448 - Max. Net Qty/Pkg. 50 kg
Special Provisions: A46
Emergency Response Guide-Code (ERG): 3L

15 Regulatory information

National regulations - Canada

Acetone: DSL: listed
Nitrocellulose: DSL: listed
Titanium dioxide: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: contains acetone

Revision date: 17/12/2025

Date of first version: 24/10/1994

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:

AS/NZS: Australian Standards/New Zealand Standards
 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
 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
 LC0: Lethal concentration 0%
 LC50: Median lethal concentration
 LEL: Lower Explosion Limit
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 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
 TRGS: Technical Rules for Hazardous Substances
 UN: United Nations
 vPvB: Very persistent and very bioaccumulative

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.