

## 1. Identification

### Product identifier

Trade name: 636K3 - Plastic Wood

This safety data sheet pertains to the following products:  
636K3 = Plastisches Holz

### Relevant identified uses of the substance or mixture and uses advised against

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

### Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care  
Street/POB-No.: 3820 W. Great Lakes Drive  
Zip code, city: Salt Lake City, UT 84120  
USA

WWW: [www.ottobockus.com](http://www.ottobockus.com)

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,  
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),  
Email: [USRegulatory@ottobock.com](mailto:USRegulatory@ottobock.com)

Additional information:

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

### Emergency telephone number

**CHEMTREC, Telephone: +1 (800) 424-9300**

**Transport:**

**CONSULTANK Lutz Harder GmbH (Contract QUALI003)**

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

## 2. Hazard identification

### Classification of the substance or mixture

Flammable Solid - Category 1

Flammable solid.

Eye Irritation - Category 2A

Causes serious eye irritation.

Specific Target Organ Toxicity (Single Exposure) - Category 3 May cause drowsiness or dizziness.

### Label 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/vapors/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.

### 3. Composition/information on ingredients

#### Mixtures

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

Relevant ingredients:

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

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.

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

After 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.

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

### Most important symptoms/effects, acute and delayed

In case of inhalation: Do not breathe vapors. 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

### Information to physician

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, dry chemical powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

### Specific hazards arising from the chemical

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

### Protective equipment and precautions for firefighters

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 vapors. 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

Methods for clean-up:

Remove all sources of ignition. Provide adequate ventilation.

Take up mechanically, placing in appropriate containers for disposal.

Additional information: Flammable solid.  
Vapors form potentially explosive mixtures with air, which are heavier than air. Air-Vapor 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 vapors. 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 vapors.  
Forms explosive mixtures with air, also in empty, uncleaned containers.  
Exposure to temperatures exceeding 122 °F 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	USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: IDLH: TWA	2,500 ppm
		USA: NIOSH: TWA	590 mg/m <sup>3</sup> ; 250 ppm
		USA: OSHA: TWA	2,400 mg/m <sup>3</sup> ; 1,000 ppm
13463-67-7	Titanium dioxide	USA: ACGIH: TWA	0.2 mg/m <sup>3</sup> (nanoparticle, respirable fraction)
		USA: ACGIH: TWA	2.5 mg/m <sup>3</sup> (fine dust, respirable fraction)
		USA: IDLH: TWA	5,000 mg/m <sup>3</sup>
		USA: OSHA: TWA	15 mg/m <sup>3</sup> (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.

### Personal protection equipment (PPE)

**Respiratory protection:** Use filter type AX (= against vapors 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 vapors.  
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 68 °F and 101.3 kPa	Form: pasty
Color:	brown
Odor:	like ketone
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 2.60 Vol-% UEL (Upper Explosive Limit): 13.00 Vol-%
Flash point/flash point range:	approx. -2.2 °F
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Viscosity:	No data available
Water solubility:	partially miscible

Partition coefficient: n-octanol/water: No data available  
 Vapor pressure: at 68 °F: 239.5 hPa  
 Density: at 68 °F: 0.79 g/mL  
 Vapor density: No data available  
 Particle characteristics: Not applicable

### Additional information

Explosive properties: Product is not explosive.  
 Vapors may form explosive mixtures with air.  
 Ignition temperature: 356 °F

## 10. Stability and reactivity

Reactivity: Flammable solid.

Chemical stability: Stable under recommended storage conditions.  
 Unsuitable materials: Rubber

Possibility of hazardous reactions:  
 Vapors may form explosive mixtures with air.  
 Forms explosive mixtures with air, also in empty, uncleaned containers. Concentrated vapors 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 (NOx), carbon monoxide and carbon dioxide.

## 11. Toxicological information

### Information on toxicological effects

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

**Toxicological effects:**

- 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 - Category 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) - Category 3 = May cause drowsiness or dizziness.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

### Symptoms

In case of inhalation: Do not breathe vapors. 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

DOT: UN3175  
IMDG, IATA-DGR: UN 3175

### UN proper shipping name

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

### Transport hazard class(es)

DOT: 4.1  
IMDG: Class 4.1, Subrisk -  
IATA-DGR: Class 4.1



### Packing group

DOT, IMDG, IATA-DGR: II

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to IMO instruments

No data available



### Special precautions for user

#### USA: Department of Transportation (DOT)

Labels:	4.1
Symbols:	G
Special Provisions:	47, IB6, IP2, T3, TP33
Packaging – Exceptions:	151
Packaging – Non-bulk:	212
Packaging – Bulk:	240
Quantity limitations – Passenger aircraft / rail:	15 kg
Quantity limitations – Cargo only:	50 kg
Vessel stowage – Location:	B

#### 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 - U.S. Federal Regulations

Acetone:	TSCA Inventory: listed Clean Air Act: CAA SOCM Chemical: yes Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Groundwater Monitoring: listed NIOSH Recommendations: Occupational Health Guideline: 0004*
Nitrocellulose:	TSCA Inventory: listed OSHA Process Safety Management: Threshold 02500 lbs.
Titanium dioxide:	TSCA Inventory: listed Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0617

### National regulations - U.S. State Regulations

Acetone:	New York Right-To-Know: listed
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### Further regulations, limitations and legal requirements

No data available

## 16. Other information

Text for labeling:	Contains 30 - 60 % Acetone, 5 - 20 % Nitrocellulose. contains acetone
Revision date:	12/17/2025
Date of first version:	10/24/1994
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)
Hazard rating systems:	<p>NFPA Hazard Rating:</p> <p>Health: 1 (Slight) Fire: 3 (Serious) Reactivity: 0 (Minimal)</p> <p>HMIS Version III Rating:</p> <p>Health: 1 (Slight) Flammability: 3 (Serious) Physical Hazard: 0 (Minimal) Personal Protection: X = Consult your supervisor</p>



HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0
	X

### 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  
 DOT: Department of Transportation's Safety Regulations (USA)  
 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  
 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.