

1. Identification

Product identifier

Trade name: 636N1 - Abrasive Grain Glue

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

General use: Adhesive for orthopedic procedures

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

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

Additional information:

Corporate headquarters:

Ottobock SE & Co. KGaA

Max-Näder-Straße 15

Duderstadt

Germany

Emergency telephone number

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

2. Hazard identification

Classification of the substance or mixture

This substance is classified as not hazardous.

Label elements

Symbols: not applicable

Hazard statements: not applicable

Precautionary statements: not applicable

Other hazards

Base

3. Composition/information on ingredients

Substances

Chemical characterization: Sodium waterglass: < 40% (aqueous solution)

CAS-Number: 1344-09-8

4. First aid measures

In case of inhalation:	In case of inhalation of aerosols/spray mist/splash spots: Seek medical attention.
Following skin contact:	Thoroughly wash skin with soap and water. Change contaminated clothing.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Apply bandage with sterile gauze. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth and drink 2-4 cupfuls of water. Consult physician.

Most important symptoms/effects, acute and delayed

After contact with skin: Not an irritant (OECD 404)

After eye contact: Not an irritant (Draize Test)

Information to physician

Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

The product itself does not burn.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Environmental precautions:

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

Methods and material for containment and cleaning up

Methods for clean-up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.
Wash spill area with plenty of water.

Additional information: Special danger of slipping by leaking/spilling product.

7. Handling and storage

Precautions for safe handling

Advices on safe handling: Avoid contact with skin and eyes.
Avoid the formation of aerosol.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

- Keep container tightly closed.
- Protect from frost.
- Protect from heat and direct sunlight.
- Provide for alkali-resistant floor.

Hints on joint storage: Do not store together with acids or oxidizing agents.

8. Exposure controls/personal protection

Appropriate engineering controls

Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment (PPE)

Respiratory protection: Avoid the formation of aerosol.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: rubber or chloroprene rubber-
Layer thickness >0,5 mm - Breakthrough time: > 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed safety glasses according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.

Body protection: Suitable protective clothing.

General hygiene considerations:
Avoid contact with skin and eyes.
Change 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 68 °F and 101.3 kPa: Form: liquid
Color: colorless, clear
Odor: odorless
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: No data available
Flash point/flash point range: No data available
Evaporation rate: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available

pH: at 68 °F: 12 g/mL

Viscosity:	No data available
Water solubility:	at 68 °F: miscible
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	No data available
Density:	at 68 °F: 1.35 - 1.37 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Product is not explosive.
Additional information:	mole ratio: >3,2

10. Stability and reactivity

Reactivity:	refer to section 10.3
Chemical stability:	Not combustible. Product is stable under normal storage conditions.
Possibility of hazardous reactions:	No dangerous reactions are known.
Conditions to avoid:	Protect from frost.
Incompatible materials:	Reaction with acids: generation of heat. Reactions with base metals under hydrogen development
Hazardous decomposition products:	The product itself does not burn.

11. Toxicological information

Information on toxicological effects

Acute toxicity:	LD50 oral: > 2,000
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: Lack of data. 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): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.

Other information: Not known to cause sensitization.

Symptoms

After contact with skin: Not an irritant (OECD 404)

After eye contact: Not an irritant (Draize Test)

12. Ecological information

Ecotoxicity

Aquatic toxicity: Bacterial toxicity: LC50 > 100mg product/l (OECD 209)

Daphnia toxicity: EC50 > 100mg product/l (OECD 202)

Fish toxicity: EC50 > 100mg product/l (ISO 7346/2)

Persistence and degradability

Further details: Product is not biodegradable.

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: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

14. Transport information

UN number

DOT, IMDG, IATA-DGR: not applicable

UN proper shipping name

DOT, IMDG, IATA-DGR: Not restricted

Transport hazard class(es)

DOT, IMDG, IATA-DGR: not applicable

Packing group

DOT, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to IMO instruments

No data available

Special precautions for user

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

TSCA Inventory: listed

National regulations - U.S. State Regulations

No data available

Further regulations, limitations and legal requirements

No data available

16. Other information

Revision date: 12/17/2025

Date of first version: 9/11/2008

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:



NFPA Hazard Rating:

Health: 0 (Minimal)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 0 (Minimal)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: B

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
B	

Abbreviations and acronyms:

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

EQ: Excepted quantities

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%

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

MFSU: Manufacture, formulation, supply and use

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

TRGS: Technical Rules for Hazardous Substances

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.