

## 636K11 - Cyamet Rapid Adhesive (Superglue)

Material number 636K11

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### 1. Product and company identification

#### Product identifier

Trade name: 636K11 - Cyamet Rapid Adhesive (Superglue)

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

General use: Adhesive for orthopedic procedures.  
Reserved for industrial and professional use.

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

Company name: Otto Bock Health Care  
Street/POB-No.: 3820 W. Great Lakes Drive  
Postal 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 phone 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. Hazards identification

#### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Form: liquid  
Color: colorless  
Odor: irritant  
Classification: Skin Irritation - Category 2. Eye Irritation - Category 2A.  
Specific Target Organ Toxicity (Single Exposure) - Category 3.

Hazard symbols:



Signal word:

**Warning**

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Hazard statements:  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

Precautionary statements:  
Avoid breathing vapors.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Store in a well-ventilated place. Keep container tightly closed.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Adhesive based on cyanoacrylic acid ester

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 7085-85-0	Cyanacrylic ester	50 - 100 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.

## 4. First aid measures

General information: Take off immediately all contaminated clothing.

In case of inhalation: Provide fresh air.  
Seek medical aid in case of troubles.

Following skin contact: Immediately clean with water and soap or cleanse with acetone followed by thorough rinsing. If product comes into contact with lips, hold mouth open. Do not allow lips to contact one another.  
Do not peel solidified product off the skin.

After eye contact: Keep eye wide open.  
Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Afterwards, consult an ophthalmologist immediately.

After swallowing: Do not induce vomiting. Consult physician.

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

[EtikettCyanacrylat]

### Information to physician

Treat symptomatically.

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### 5. Fire fighting measures

Flash point/flash point range:

> 176 °F

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

Water spray jet, 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

In case of fire, cyanides, nitrogen oxides (NOx) and CO2 may be released.

Danger of formation of toxic pyrolysis products.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

### 6. Accidental release measures

Personal precautions: Provide adequate ventilation.

Environmental precautions:

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

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder.  
Store in special closed containers and dispose of according to ordinance.

### 7. Handling and storage

#### Handling

Advices on safe handling: Provide adequate ventilation. Do not breathe vapors.

Avoid contact with skin and eyes.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

#### Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool place.

Keep container dry. Keep only in the original container.

storage temperature: 41 - 77 °F. Protect from frost, heat and sunlight.

Keep locked up and out of the reach of children.

Hints on joint storage:

Do not store together with alkalis.

### 8. Exposure controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7085-85-0	Cyanacrylic ester	USA: ACGIH: STEL	1 ppm
		USA: ACGIH: TWA	0.2 ppm

### Engineering controls

Provide good ventilation in the work area.  
Where the atmosphere is very dry, the atmospheric moisture level must be raised to at least 50-60% relative humidity.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010

Skin protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile rubber - Layer thickness: > 0.4  
Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:  
Cyanacrylate - Danger - skin and eyelids will stick together in seconds.  
Keep out of the reach of children.  
When using do not eat, drink or smoke.  
Keep away from food, drink and animal feedingstuffs.  
Wash hands before breaks and after work.  
Do not breathe gas/fume/vapor/spray.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Form: liquid  
Color: colorless

Odor: irritant

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point/flash point range: > 176 °F

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapor pressure: at 68 °F: Ethyl 2-cyanoacrylate: 0.12 hPa (DIN 51754)

Vapor density: No data available

Density: at 68 °F: 1,06 g/ml  
1.04 g/mL

Water solubility: hydrolysis

Partition coefficient: n-octanol/water: No data available

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Auto-ignition temperature: not self-igniting  
Thermal decomposition: No data available  
Viscosity, dynamic: 20-40 mPa.s (Brookfield)  
at 77 °F: 10 - 30 mPa\*s  
Explosive properties: not applicable  
Solvent content:  
Solid content:

## 10. Stability and reactivity

Reactivity: refer to 10.3  
Chemical stability: Product is stable under normal storage conditions.  
Possibility of hazardous reactions: Polymerization along with heat production.  
Conditions to avoid: Heat will be generated if water is added.  
Reacts violently with water.  
Protect from frost, heat and sunlight.  
Incompatible materials: Violent reaction with strong alkalis, oxidizing materials and amines.  
Reacts with alcohols, Acids. and alcohol  
Hazardous decomposition products: In case of fire may be liberated: Cyanide, nitrous fumes (NOx) and carbon monoxide.  
Thermal decomposition: No data available

## 11. Toxicological information

### Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.  
Acute toxicity (oral): Lack of data.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.  
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 respiratory irritation.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

Other information: Cyanacrylate - Danger - skin and eyelids will stick together in seconds.  
Information about Ethyl 2-cyanoacrylate (CAS 7085-85-0):  
LD50 Rat, oral: > 5,000 mg/kg (OECD 423)  
LD50 Rabbit, dermal: > 2,000 mg/kg (OECD 402)

### Symptoms

In case of inhalation: irritant  
After contact with skin: irritant  
After eye contact: irritant

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

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

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation.  
This material and its container must be disposed of as hazardous waste.

### Package

Recommendation: Dispose of waste according to applicable legislation.

## 14. Transport information

### UN number

ADR/RID, IMDG: not applicable  
IATA-DGR: UN 3334

### UN proper shipping name

ADR/RID, IMDG: Not restricted  
IATA-DGR: UN 3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)

### Transport hazard class(es)

ADR/RID, IMDG: not applicable  
IATA-DGR: Class 9

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### Packing group

ADR/RID, IMDG: not applicable  
IATA-DGR: III

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### USA: Department of Transportation (DOT)

Identification number: UN1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUIDS, N.O.S. (Ethyl 2-cyanoacrylate)  
Hazard class or Division: 3  
Packing Group: III  
Labels: 3  
Symbols: G  
Special Provisions: B1, B52, IB3, T4, TP1, TP29  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 203  
Packaging – Bulk: 242  
Quantity limitations – Passenger aircraft / rail: 60 L  
Quantity limitations – Cargo only: 220 L  
Vessel stowage – Location: A



### Sea transport (IMDG)

Proper shipping name: Not restricted  
Marine pollutant: no

### Air transport (IATA)

UN/ID number: UN 3334  
Proper shipping name: UN 3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)  
Class or division, Subsidiary risk: Class 9  
Packing Group: III  
Hazard label: Miscellaneous  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Special Provisions: A27  
Emergency Response Guide-Code (ERG): 9A

## 15. Regulatory information

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

Cyanacrylic ester: TSCA Inventory: listed

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

Cyanacrylic ester: California Proposition 65: Not listed.

### National regulations - Canada

Cyanacrylic ester: DSL: listed

### National regulations - Great Britain

Hazchem-Code: -

## 16. Other information

Text for labeling: Contains 50 - 100 % Cyanacrylic ester.

Contains Ethyl 2-cyanoacrylate.

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 2 (Moderate)

Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 2 (Moderate)

Physical Hazard: 2 (Moderate)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	2
	X

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
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  
EC: European Community  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
Eye Irritation: Eye irritation  
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  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irritation: Skin irritation  
STOT SE: Specific target organ toxicity - single exposure  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 3: Composition/information on ingredients  
General revision

Date of first version: 10/29/1994

### Department issuing data sheet

Contact person: see section 1: Department responsible for information





# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

## 636K11 - Cyamet Rapid Adhesive (Superglue)

Material number 636K11

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