

## 1 Identification

### Product identifier

Trade name: 636K36 - Fast Set Adhesive ergo.Smart.Pen

### 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

Skin Irritation 2 Causes skin irritation.  
Eye Irritation 2 Causes serious eye irritation.  
Specific Target Organ Toxicity (Single Exposure) 3 May cause respiratory irritation.

### Information elements

Symbols:



Signal word:

**Warning**

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

Precautionary statements: Avoid breathing vapours.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

### Other hazards known to the supplier with respect to the product

## 3 Composition/Information on ingredients

### Mixture

Chemical name: Adhesive based on cyanoacrylic acid ester

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 7085-85-0	Ethyl 2-cyanoacrylate	>= 30 %	Skin Irritation 2. Eye Irritation 2. 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: Take off immediately all contaminated clothing.  
In case of inhalation: Provide fresh air.  
Seek medical aid in case of troubles.  
In case of swallowing: Do not induce vomiting. Consult physician.  
In case of 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.  
In case of 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.

### Most important symptoms and effects, whether acute or delayed

[EtikettCyanacrylat]

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

Treat symptomatically.

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**5 Fire-fighting measures****Suitable and unsuitable extinguishing media**

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:

Full water jet

**Specific hazards arising from the product**In case of fire, cyanides, nitrogen oxides (NO<sub>x</sub>) and CO<sub>2</sub> may be released.

Danger of formation of toxic pyrolysis products.

**Special protective equipment and precautions for fire-fighters**

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

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.

Environmental precautions:

Do not allow to enter into ground-water, 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.

**7 Handling and storage****Precautions for safe handling**

Advice on safe handling: Provide adequate ventilation. Do not breathe vapours.

Avoid contact with skin and eyes.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

**Conditions for safe storage, including any incompatibilities**

Requirements for storerooms and containers:

Keep container tightly closed in a cool place.

Keep container dry. Keep only in the original container.

storage temperature: 5 - 25 °C. 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

### Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7085-85-0	Ethyl 2-cyanoacrylate	Canada: Alberta, OEL 8 hour Canada: BC, OEL TWA	1 mg/m <sup>3</sup> ; 0.2 ppm 0.2 ppm

### Appropriate 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.

### Individual protection measures, such as personal protective equipment

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

Hand 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.

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

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/vapour/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:	irritant
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:	No data available

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Flash point/flash point range:	> 80 °C
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Dynamic viscosity:	70-120 mPa.s (Brookfield)
Water solubility:	hydrolysis
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	at 20 °C: Ethyl 2-cyanoacrylate: 0.12 hPa (DIN 51754)
Density and/or relative density	at 20 °C: 1,06 g/ml
Vapour density:	No data available
Particle characteristics:	Not applicable

### Additional information

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.

## 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: Skin Irritation 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation 2 = 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 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

### 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.

## 13 Disposal considerations

### Waste treatment methods

#### 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

TDG: UN1993  
IATA-DGR: UN 3334

### UN proper shipping name

TDG: UN 1993, Flammable liquid, n.o.s. (Ethyl 2-cyanoacrylate)  
IMDG: Not restricted  
IATA-DGR: UN 3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)

### Transport hazard class

TDG: 3  
IATA-DGR: Class 9

### Packing group

TDG, IATA-DGR: III

### 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, 150  
Explosive limit and limited quantity index: 5 L  
Passenger carrying road or rail index: 60 L  
Marine pollutant: P

#### Sea transport (IMDG)

Proper shipping name: Not restricted  
Marine pollutant: no

### Air transport (IATA)

Proper shipping name:	UN 3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)
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 - Canada

Ethyl 2-cyanoacrylate: DSL: listed

### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Text for labelling:	Contains Ethyl 2-cyanoacrylate.
Revision date:	17/12/2025
Date of first version:	6/2/2009
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  
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  
Skin Irritation: Skin irritation  
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



# SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR) 2022

## 636K36 - Fast Set Adhesive ergo.Smart.Pen

Material number 636K36

Revision date: 17/12/2025  
Version: 12.3  
Replaces version: 12.2  
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### 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.