

1 Identification

Product identifier

Trade name: 84A2 - Acrydoc Poly

Recommended use and restrictions on use

General use: For producing finger nails and toenails for orthopedic procedures

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

Sensitization - skin 1 May cause an allergic skin reaction.

Aquatic toxicity - acute 2 Toxic to aquatic life.

Aquatic toxicity - chronic 2 Toxic to aquatic life with long lasting effects.

Information elements

Symbols:



Signal word:

Warning

Hazard statements:

May cause an allergic skin reaction.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary statements:

Avoid breathing dust.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection.
 IF ON SKIN: Wash with plenty of water/soap.
 Specific treatment (see ' First aid ' on this label).
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Collect spillage.
 Dispose of contents/container to hazardous or special waste collection point.

Other hazards known to the supplier with respect to the product

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
 The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

3 Composition/Information on ingredients

Mixture

Chemical name: mixture on the basis of methacrylate copolymerisate

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 80-62-6	Methyl methacrylate	1 - 5 %	Flammable Liquid 2. Skin Irritation 2. Sensitization - skin 1. Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - acute 3.
CAS 72846-00-5	1-Benzyl-5-phenylbarbituric acid	1 - 5 %	Acute Toxicity 4 (oral). Eye Irritation 2A.
CAS 94-36-0	Dibenzoyl peroxide	1 - < 2.5 %	Organic Peroxide B. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - acute 1 (M-factor = 10). Aquatic toxicity - chronic 1 (M-factor = 10).

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

4 First-aid measures

Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand.
 In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
 In case of swallowing: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
 In case of skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

In case of eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

May cause an allergic skin reaction.
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

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

Treat symptomatically.

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

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.
Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. In case of release, notify competent authorities.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Thoroughly clean surrounding area. Never return spills in original containers for re-use.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

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

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in original container.

Protect from heat and direct sunlight. Store containers in upright position.

Only approved packaging (e.g. in accordance with TDG) may be used.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with: Oxidizing agents.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	84A2 - Acrydoc Poly	Canada: Alberta, OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: Alberta, OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: BC, OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: BC, OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: Québec, VEMP	10 mg/m ³ (total dust)
		Canada: Québec, VEMP	3 mg/m ³ (total dust, respirable fraction)
80-62-6	Methyl methacrylate	Canada: Alberta, OEL 15 min	410 mg/m ³ ; 100 ppm
		Canada: Alberta, OEL 8 hour	205 mg/m ³ ; 50 ppm
		Canada: BC, OEL STEL	100 ppm
		Canada: BC, OEL TWA	50 ppm
		Canada: Québec, VECD	100 ppm
		Canada: Québec, VEMP	50 ppm
94-36-0	Dibenzoyl peroxide	Canada: Alberta, OEL 8 hour	5 mg/m ³
		Canada: BC, OEL TWA	5 mg/m ³
		Canada: Québec, VEMP	5 mg/m ³

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area. In the case of the formation of dust: Dust should be exhausted directly at the point of origin.

Individual protection measures, such as personal protective equipment

Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection. Recommendation: Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
Hand protection:	Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness ≥ 0.7 mm Nitrile rubber - Layer thickness ≥ 0.4 mm Breakthrough time: > 30 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:	Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

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	solid
Colour:	Form: Powder pink
Odour:	Nearly odourless
Odour threshold:	No data available
Melting point and freezing point:	Not determined
Boiling point or initial boiling point and boiling range:	Not determined
Flammability:	This material is combustible, but will not ignite readily.
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Flash point/flash point range:	Not determined
Evaporation rate:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available

pH:	Not applicable
Water solubility:	Insoluble
Partition coefficient — n-octanol/water:	at 20 °C: 3.2 log K(o/w) (dibenzoyl peroxide) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. at 20 °C: 1.38 log K(o/w) (methyl methacrylate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapour pressure:	at 20 °C: Negligible
Density and/or relative density	No data available
Vapour density:	No data available
Particle characteristics:	No data available

Additional information

Explosive properties:	The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
Ignition temperature:	400 °C

10 Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid generation of dust.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information:

Information about 1-Benzyl-5-phenylbarbituric acid (CAS 72846-00-5):

LD50 Rat, oral: 500 mg/kg (OECD 423)

Symptoms

A repeated, excessive dust exposure can cause pneumoconiosis.

12 Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about Methyl methacrylate (CAS 80-62-6):

Fish toxicity:

LC50 fish: > 100 mg/L/96h (weight of evidence)

NOEC Danio rerio (zebrafish): 9.4 mg/L/35d (OECD 210)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 69 mg/L/48h (EPA OTS 797.1300)

NOEC Daphnia magna (Big water flea): 37 mg/L/21d (OECD 211)

Algae toxicity:

ErC50 Pseudokirchneriella subcapitata (green algae): > 110 mg/L/72h (OECD 201)

NOEC Pseudokirchneriella subcapitata (green algae): ≥ 110 mg/L/72h (OECD 201)

Information about Dibenzoyl peroxide (CAS 94-36-0):

Fish toxicity:

LC50 Oncorhynchus mykiss: 0.06 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.11 mg/L/48h (OECD 202)

EC10 Daphnia magna (Big water flea): 0.001 mg/L/21d (OECD 211)

Algae toxicity:

ErC50 Pseudokirchneriella subcapitata (green algae): 0.071 mg/L/72h (OECD 201)

NOEC Pseudokirchneriella subcapitata (green algae): 0.02 mg/L/72h (OECD 201)

Effects in sewage plants:

Information about Methyl methacrylate (CAS 80-62-6):

NOEC activated sludge: ≥ 100 mg/L/14d (OECD 301 C)

Information about Dibenzoyl peroxide (CAS 94-36-0):

EC50 activated sludge: 35 mg/L/30min (OECD 209)

Persistence and degradability

Further details:

Biodegradability:

Information about Methyl methacrylate (CAS 80-62-6):

Oxygen consumption: 94%/14d (OECD 301 C), easily bio-degradable

Information about Dibenzoyl peroxide (CAS 94-36-0):

Oxygen consumption: 71%/28d (OECD 301 D), easily bio-degradable

Bioaccumulative potential

Partition coefficient — n-octanol/water:

at 20 °C: 3.2 log K(o/w) (dibenzoyl peroxide)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 20 °C: 1.38 log K(o/w) (methyl methacrylate)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

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: Dispose of waste according to applicable legislation. Do not allow to enter drains.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14 Transport information

UN number

TDG: UN3077

IMDG, IATA-DGR: UN 3077

UN proper shipping name

TDG, IMDG, IATA-DGR: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(dibenzoyl peroxide)

Transport hazard class

TDG: 9

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

Packing group

TDG, IMDG, IATA-DGR: III

Environmental hazards

Marine pollutant: yes



Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Special Provisions: 16, 99

Explosive limit and limited quantity index: 5 kg

Marine pollutant: P

Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 375 966 967 969
Limited quantities: 5 kg
Excepted quantities: E1
Package - Instructions: P002, LP02
Package - Provisions: PP12
IBC - Instructions: IBC08
IBC - Provisions: B3
Tank instructions - IMO: -
Tank instructions - UN: T1, BK2, BK2, BK3
Tank instructions - Provisions: TP33
Stowage and handling: Category A. SW23
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

Proper shipping name: UN 3077,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(dibenzoyl peroxide)
Hazard label: Miscellaneous & Environmentally hazardous
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo Aircraft only: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Special Provisions: A97 A158 A179 A197 A215
Emergency Response Guide-Code (ERG): 9L

15 Regulatory information

National regulations - Canada

Methyl methacrylate: DSL: listed
Priority Substances List: listed (PSL 1)
1-Benzyl-5-phenylbarbituric acid: NDSL: listed
Dibenzoyl peroxide: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains:
Methyl methacrylate
Dibenzoyl peroxide

Revision date: 17/12/2025

Date of first version: 21/2/2007

Reason of change: Changes in section 2: Classification, labelling
Changes in section 3: Composition/information on ingredients
Changes in section 14: Transport information
Changes in section 15: Regulatory information
General revision
General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

Classification procedure: Physical hazards: on basis of test data
Health hazards, environmental hazards: calculation method

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
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)
DSL: Domestic Substances List
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Flammable Liquid: Flammable liquid
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
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
NDSL: Non-Domestic Substances List
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
Organic Peroxide: Organic peroxide
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
PSL: Priority Substances List
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

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.