



Factor II, Incorporated

The Art, Science and Technology of
Silicones and Prosthetics...

Safety Data Sheet

Product Code A-417

Revision Date: 09-05-2019

5. Kidney, Liver, Skin

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity , inhalation , vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor.
Harmful if swallowed.
Causes serious eye irritation.
May cause an allergic skin reaction.
Causes damage to organs.
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating /lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust or mists. Use only outdoors or in a well-ventilated area.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. If



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exposed: Call a poison center/doctor Specific treatment (see this label). Wash contaminated clothing before reuse. In case of fire: Use ... to extinguish.

Storage:

Store in well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification:

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

SECTION 3: HAZARDOUS INGREDIENTS

Mixtures

Chemical Identity	CAS number	Content in percent (%) •	Notes
ETHYL ACETATE	141-78-6	60- 100 %	# This substance has workplace exposure limit(s).
Methyl Methacrylate	80-62-6	7 - 13%	# This substance has workplace exposure limit(s).
Methanol	67-56-1	3-7%	# This substance has workplace exposure limit(s).
DIBENZOYL PEROXIDE	94-36-0	0.1 - 1%	# This substance has workplace exposure limit(s).

* All concentrations are percent by weight unless ingredient 1s a gas. Gas concentrations are in percent by volume.

SECTION 4: FIRST-AID MEASURES

Ingestion: Do NOT induce vomiting.

Inhalation: Move to fresh air

Skin Contact: No data available.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least



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15 minutes.

Most important symptoms/effects, acute and delayed

Symptoms: None known

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Foam. Carbon dioxide Alcohol foam.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Wear appropriate personal protective equipment. Flammable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep container tightly closed.

Methods and material for containment and cleaning up:

Wipe, scrape or soak up in an inert material and put in a container for disposal

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Sensitivity to static discharge is expected; material has a flash point below 200 F.

Conditions for safe storage, including any incompatibilities: No data available.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters
Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
ETHYL ACETATE	TWA	400 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	400 ppm 1,400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	400 ppm 1.400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Methyl Methacrylate	TWA	400 ppm 1,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	50 ppm	US. ACGIH Threshold Limit Values (03 2015)
	STEL	100 ppm	US. ACGIH Threshold Limit Values (03 2015)
Methanol	REL	100 ppm 410 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm 410 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm 410 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910 .1000) 11989)
Methanol	TWA	200 ppm	US. ACGIH Threshold Limit Values (03 2015)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (03 2015)
	STEL	250 ppm 325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Methanol	REL	200 ppm 260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910 .1000) (02 2006)
	TWA	200 ppm 260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Methanol	STEL	250 ppm 325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)



DIBENZOYL PEROXIDE	TWA	5 ma/m3	US. ACGIH Threshold Limit Values (03 2015)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Biological Values

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of shift)	15 mg/l (Urine)	ACGIH BEi (03 2015)

Appropriate Engineering Controls

Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

Eye/face protection:

Face shield Monogoggles

Skin Protection

Hand Protection:

Rubber or plastics gloves

Other:

Wear rubber apron. Wear suitable protective clothing and eye/face protection.

Respiratory Protection:

Use only in well-ventilated areas. Use approved NIOSH respiratory protection if TLV exceeded or overexposure is likely.

Hygiene measures:

No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:

liquid

Form:

liquid

Color:

Colorless



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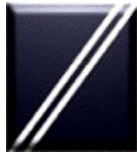
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Odor:	ester like
Odor threshold:	No data available.
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	ca. 80 °C
Flash Point:	-2 .80 °C (Tagliabue Closed Cup)
Evaporation rate:	ca. 6
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	11.00 ³ / ₄ (V)
Flammability limit - lower (%):	2.00 ³ / ₄ (V)
Explosive limit - upper (%):	No data available ...
Explosive limit - lower (%):	No data available
Heat of combustion:	No data available
Vapor pressure:	Not applicable
Vapor density:	No data available
Density:	ca. 0.91 g/cm ³
Relative density:	0.91
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	SOLUBLE IN ALCOHOLS
Partition coefficient (n-octanol/water) Log Pow:	No data available
Auto-ignition temperature:	385.00 °C
Decomposition temperature:	No data available
SADT:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
VOC:	859 g/l

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
Conditions to avoid:	Keep away from sources of ignition - No smoking. Keep away from sources of ignition - No smoking
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Methanol Formaldehyde. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.



SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion:	No data available.
Inhalation:	No data available
Skin Contact:	No data available
Eye contact:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available
Skin Contact:	No data available
Eye contact:	No data available

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 1,919.94 mg/kg
Specified substance(s):	
ETHYL ACETATE	LO 50 (Rat, No data available.): 5,620 mg/kg LO 50 (Guinea Pig, No data available.): 5,500 mg/kg LO 50 (Mouse, No data available.): 4,100 mg/kg LO 50 (Rabbit, No data available.): 4,935 mg/kg
Methanol	LO 50 (Rat): 5,628 mg/kg
Dermal Product:	ATEmix: 9,462.53 mg/kg
Specified substance(s):	
ETHYL ACETATE	LD 50 (Rabbit, No data available.): 20,000 mg/kg LD 50 (Rabbit, No data available.): 20,000 mg/kg
Methanol	LD 50 (Rabbit): 15,800 mg/kg
Inhalation Product:	ATEmix : 60.74 mg/l
Specified substance(s):	
ETHYL ACETATE	LC50 (Rat, No data available.): 1.6 mg/l LC50 (Mouse, No data available.): 45 mg/l
Methanol	LC 50 (Rat): 6.4 mg/l

Repeated dose toxicity Product: No data available.

Skin Corrosion/Irritation Product: No data available.



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Serious Eye Damage/Eye Irritation Product: No data available .

Respiratory or Skin Sensitization Product: No data available .

Carcinogenicity Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product: No data available.

In vivo Product: No data available.

Reproductive toxicity Product: No data available.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Central nervous system.

Specific Target Organ Toxicity - Single Exposure: optic nerve

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Specific Target Organ Toxicity - Repeated Exposure: Peripheral nervous system

Specific Target Organ Toxicity - Repeated Exposure: Kidney, Liver, Skin

Aspiration Hazard Product: No data available.

Other effects: No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: No data available

Specified substance(s):

ETHYL ACETATE LC50 (Leuciscus idus, 48 h): ca. 270 mg/l
LC50 (Pimephales promelas, 96 h): 230 mg/l

Methanol LC50 (Pimephales promelas, 96 h): 28,100 mg/l



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Aquatic Invertebrates Product:	No data available.
Specified substance(s):	
ETHYL ACETATE	LC0 (Daphnia magna): 1,562 mg/l (Daphnia magna): 3,090 mg/l

Chronic hazards to the aquatic environment:

Fish Product: No data available.

Aquatic Invertebrates Product: No data available.

Toxicity to Aquatic Plants Product: No data available

Persistence and Degradability

Biodegradation Product: No data available.

Specified substance(s):	
ETHYL ACETATE	68 % (5 d, No data available.) 85 % (28 d, No data available.)

BOD/COD Ratio Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)Product: No data available.

Partition Coefficient n-octanol / water (log Kow) Product: No data available .

Mobility in Soil: No data available .

Known or predicted distribution to environmental compartments	
ETHYL ACETATE	No data available.
Methyl Methacrylate	No data available.
Methanol	No data available.
DIBENZOYL PEROXIDE	No data available.

Other Adverse Effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

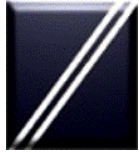
Disposal instructions: Disposal should be made in accordance with federal, state and local regulations

Contaminated Packaging: Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

DOT

UN Number: UN1993



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UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(E THYL ACETATE , METHANOL)
Transport Hazard Class (es)	
Class :	3
Label(s):	3
Packing Group:	II
Marine Pollutant:	No

IMDG

UN Number:	1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(E THYL ACETATE , METHANOL)
Transport Hazard Class(es)	
Class :	3
Label(s):	3
EmS No.:	F-E, S-E
Packing Group:	II
Marine Pollutant:	No
Limited quantity	1.00L
Excepted quantity	E2

IATA

UN Number:	UN 1993
Proper Shipping Name:	Flammable liquid, n.o.s.(ETHYL ACETATE , METHANOL)
Transport Hazard Class (es) :	
Class :	3
Label(s) :	3
Packing Group: II	
Cargo aircraft only Packing Instructions:	364
Passenger and cargo aircraft Packing Instructions:	364
Limited quantity:	1.00L
Packing Instructions:	Y341
Excepted quantity	E2
Environmental Hazards:	Not regulated.
Marine Pollutant:	No



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
ETHYL ACETATE	5,000 lbs
Methyl Methacrylate	1,000 lbs
Methanol	5,000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

- Fire Hazard
- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
ETHYL ACETATE	5,000 lbs
Methyl Methacrylate	1,000 lbs
Methanol	5,000 lbs

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
ETHYL ACETATE	10000lbs
Methyl Methacrylate	10000lbs
Methano	10000lbs
DIBENZOYL PEROXIDE	10000lbs

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Methyl Methacrylate		
Methanol		



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Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity	Reportable quantity
Methyl Methacrylate	1,000 lbs

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Methanol	Maximum Allowable Dose Level (MADL): 47000 µg/day. Developmental toxin.
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US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

ETHYL ACETATE

Methyl Methacrylate

Methanol

2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl) propyl ester

DIBENZOYL PERO XIDE

ETHYL ACETATE

Methyl Methacrylate

Methanol

2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl) propyl ester

US. Massachusetts RTK - Substance List

Chemical Identity

ETHYL ACETATE

Methyl Methacrylate

Methanol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

ETHYL ACETATE

Methyl Methacrylate

Methanol

US. Rhode Island RTK

Chemical Identity

ETHYL ACETATE

Methyl Methacrylate

Methanol



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SECTION 16: OTHER INFORMATION

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