



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name Pro Bond Solvent

Product Code B-608

Intended Use(s) : For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated
5642 White Mountain Ave
PO Box 1339
Lakeside AZ 85929
928-537-8387
www.factor2.com
sales@factor2.com

EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids

Category 3

GHS label elements

Hazard pictograms



Signal Word

Warning

Hazard Statements

H226 Flammable liquid and vapor.

Precautionary Statements

Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards Vapors may form explosive mixture with air.
Static-accumulating flammable liquid.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Substance
Substance name	Octamethyltrisiloxane
CAS-No.	107-51-7
Chemical nature	Silicone

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Octamethyltrisiloxane	107-51-7	>= 90 - <= 100

SECTION 4: FIRST AID MEASURES

If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	None known.
Protection of first-aiders	No special precautions are necessary for first aid responders.



Notes to physician

Treat symptomatically and supportively.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media

High volume water jet

Specific hazards during fire fighting

Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Fire burns more vigorously than would be expected.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products

Carbon oxides
Silicon oxides
Formaldehyde

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions

Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Methods and materials for containment and cleaning up

Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapors/mists with a water spray jet.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable absorbent.

Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7: HANDLING AND STORAGE

Technical measures

Ensure all equipment is electrically grounded before beginning transfer operations.

This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.

Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/Total ventilation

Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Non-sparking tools should be used.

Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage

Keep in properly labeled containers.

Keep tightly closed.

Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Keep away from heat and sources of ignition.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Materials to avoid

Do not store with the following product types:

- Strong oxidizing agents
- Organic peroxides
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures which in contact with water emit flammable gases
- Explosives
- Gases

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Octamethyltrisiloxane	107-51-7	TWA	200 ppm	DCC OEL

Engineering measures

- Processing may form hazardous compounds (see section 10).
- Minimize workplace exposure concentrations.
- Use only in an area equipped with explosion proof exhaust ventilation.
- Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks

Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.



Eye protection

Wear the following personal protective equipment: Safety glasses

Skin and body protection

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Wear the following personal protective equipment: Flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures

Ensure that eye flushing systems and safety showers are located close to the working place.

When using do not eat, drink or smoke.

Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Based on typical material)

Appearance	liquid
Color	colorless
Odor	none
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	152 °C
Flash point	30 °C
	Method Tag closed cup
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Self-ignition	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self-heating.
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	0.816
Solubility(ies)	
Water solubility	No data available



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Partition coefficient: noctanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	
Viscosity, kinematic	1 cSt
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	No data available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	Handling operations that can promote accumulation of static charges. Heat, flames and sparks.
Incompatible materials	Oxidizing agents
Hazardous decomposition products	
Thermal decomposition	Formaldehyde

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	Not classified based on available Information.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Product

Acute oral toxicity

LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: On basis of test data.

Acute inhalation toxicity

LC50 (Rat): > 2350 ppm

Exposure time: 4 h

Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: On basis of test data.

Ingredients

Octamethyltrisiloxane:

Acute oral toxicity

LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: On basis of test data.

Acute inhalation toxicity

LC50 (Rat): > 2350 ppm

Exposure time: 4 h

Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: On basis of test data.

Acute dermal toxicity

LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: On basis of test data.

Skin corrosion/irritation

Not classified based on available information.

Product

Species: Rabbit

Result: No skin irritation

Remarks: On basis of test data.

Ingredients:

Octamethyltrisiloxane

Species: Rabbit

Result: No skin irritation

Remarks: On basis of test data.

Serious eye damage/eye irritation

Not classified based on available information.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Ingredients

Octamethyltrisiloxane

Result: No eye irritation

Remarks: Based on data from similar materials

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)

Species: Humans

Remarks: On basis of test data.

Ingredients:

Octamethyltrisiloxane:

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)

Species: Humans

Result: negative

Remarks: On basis of test data.

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: On basis of test data.

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: On basis of test data.

Ingredients:

Octamethyltrisiloxane:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: On basis of test data.

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: On basis of test data.

Carcinogenicity

Not classified based on available information.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility

Test Type: Combined repeated dose toxicity study with the reproduction/
developmental toxicity screening test

Species: Rat, male and female

Application Route: inhalation (vapor)

Symptoms: No effects on fertility.

Remarks: On basis of test data.

Test Type: Uterotrophic assay

Species: Rat, female

Application Route: inhalation (vapor)

Result: negative

Remarks: On basis of test data.

Effects on fetal development

Test Type: Combined repeated dose toxicity study with the reproduction/
developmental toxicity screening test

Species: Rat, male and female

Application Route: inhalation (vapor)

Symptoms: No effects on fetal development.

Remarks: On basis of test data.

Reproductive toxicity - Assessment

No evidence of adverse effects on sexual function and fertility, or on
development, based on animal experiments.

Ingredients:

Octamethyltrisiloxane:

Effects on fertility

Test Type: Combined repeated dose toxicity study with the reproduction/
developmental toxicity screening test

Species: Rat, male and female

Application Route: inhalation (vapor)



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Symptoms: No effects on fertility.
Remarks: On basis of test data.

Test Type: Uterotrophic assay
Species: Rat, female
Application Route: inhalation (vapor)
Result: negative
Remarks: On basis of test data.

Effects on fetal development

Test Type: Combined repeated dose toxicity study with the reproduction/
developmental toxicity screening test
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: No effects on fetal development.
Remarks: On basis of test data.

Reproductive toxicity – Assessment

No evidence of adverse effects on sexual function and fertility, or on development,
based on animal experiments.

STOT-single exposure Not classified based on available information.

STOT-repeated exposure Not classified based on available information.

Product:

Routes of exposure Inhalation (vapor)
Assessment: No significant health effects observed in animals at concentrations
of 1 mg/l/6h/d or less.

Ingredients:

Octamethyltrisiloxane:

Routes of exposure Ingestion
Assessment: No significant health effects observed in animals at concentrations
of 100 mg/kg bw or less.

Routes of exposure inhalation (vapor)
Assessment: No significant health effects observed in animals at concentrations
of 1 mg/l/6h/d or less.

Repeated dose toxicity

Product:

Species: Rat
Application Route: inhalation (vapor)
Remarks: On basis of test data.

Ingredients

Octamethyltrisiloxane



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Species: Rat
Application Route: Ingestion
Remarks: On basis of test data.

Species: Rat
Application Route: Ingestion
Remarks: On basis of test data.

Species: Rat
Application Route: inhalation (vapor)
Remarks: On basis of test data.

Aspiration toxicity

Not classified based on available information.

Further information

Ingredients

Octamethyltrisiloxane:

Remarks: This material contains octamethyltrisiloxane (L3). Repeated inhalation exposure in rats to L3 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients

Octamethyltrisiloxane

Toxicity to fish

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 0.019 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: On basis of test data.
No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates

EC50 (*Daphnia magna* (Water flea)): > 0.020 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility.

Toxicity to algae

EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 0.0094 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Toxicity to fish (Chronic toxicity)

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.034 mg/l

Remarks: No toxicity at the limit of solubility.

NOEC (Oncorhynchus mykiss (rainbow trout)): \geq 0.034 mg/l

Remarks: No toxicity at the limit of solubility.

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.027 mg/l

Method: OECD Test Guideline 210

Remarks: On basis of test data.

No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia sp. (Water flea)): > 0.15 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: No toxicity at the limit of solubility.

Ecotoxicology Assessment

Acute aquatic toxicity

This product has no known ecotoxicological effects.

Chronic aquatic toxicity

This product has no known ecotoxicological effects.

Persistence and degradability

Ingredients:

Octamethyltrisiloxane

Biodegradability

Result: Not readily biodegradable.

Biodegradation: 0 %

Method: OECD Test Guideline 310

Stability in water

Degradation half life: 329 h pH: 7

Method: OECD Test Guideline 111

Remarks: On basis of test data.

Bioaccumulative potential

Ingredients

Octamethyltrisiloxane

Bioaccumulation

Species: Pimephales promelas (fathead minnow)

Bioconcentration factor (BCF): \geq 500

Method: OECD Test Guideline 305

Remarks: Biomagnification factor <1

Partition coefficient: n-octanol/water

log Pow: \geq 4

Remarks: On basis of test data.



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

Mobility in soil No data available

Other adverse effects No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and Recovery Act (RCRA)

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste Code D001: Ignitability

Waste from residues Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Empty containers retain residue and can be dangerous.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.

If not otherwise specified: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	UN 1993
Proper shipping name	Flammable liquid, n.o.s. (Octamethyltrisiloxane)
Class	3
Packing group	III
Labels	3

IATA-DGR

UN/ID No.	UN 1993
Proper shipping name	Flammable liquid, n.o.s. (Octamethyltrisiloxane)
Class	3
Packing group	III
Labels	Flammable Liquids
Packing instruction (cargo aircraft)	366
Packing instruction (passenger aircraft)	355



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

IMDG-Code

UN number	UN 1993
Proper shipping name	Flammable liquid, n.o.s. (Octamethyltrisiloxane)
Class	3
Packing group	III
Labels	3
EmS Code	F-E, S-E
Marine pollutant	no

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	UN 1993
Proper shipping name	Flammable liquids, n.o.s. (Octamethyltrisiloxane)
Class	3
Packing group	III
Labels	Flammable liquid
ERG Code	128
Marine pollutant	no

SECTION 15: REGULATORY INVORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Fire Hazard

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Octamethyltrisiloxane

107-51-7



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

NZIoC	All ingredients listed or exempt.
REACH	All ingredients (pre-)registered or exempt.
TSCA	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
AICS	All ingredients listed or exempt.
IECSC	All ingredients listed or exempt.
ENCS/ISHL	All components are listed on ENCS/ISHL or exempted from inventory listing.
KECI	All ingredients listed, exempt or notified.
PICCS	All ingredients listed or exempt.
DSL	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
TCSI	All ingredients listed or exempt.

SECTION 16: OTHER INFORMATION

HMIS Hazard ID

Health	/ - Absence of a chronic hazard
	0 - Minimal
Flammability	3 - Serious
Physical Hazards	0 - Minimal

NFPA Hazard ID

Flammability	3 - Serious
Health	0 - Minimal
Instability	0 - Minimal
Special Hazard	

DISCLAIMER / STATEMENT OF LIABILITY: This is a computer-generated document that is valid without a signature.

The information above is supplied in good faith and, to the best of our knowledge, is based on available



Factor II, Incorporated

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

Safety Data Sheet

Product Code: B-608

Revision Date: 12/29/2016

sources believed to be reliable and accurate. This document and any information provided herein are for your guidance only. The use by the requestor is beyond Factor II control; therefore, the responsibility for appropriate and safe use of the above information lies with the End user. Factor II shall not be responsible for any misuse and/or misapplication of the information in this document.