

# **Safety Data Sheet**

Issue Date: 21-Jan-2014 Revision Date: 13-Jan-2015 Version 1

# 1. IDENTIFICATION

Product Identifier

Product Name MucoSoft™ Adhesive Agent

Other means of identification

**SDS** # S494

**UN/ID No** UN1247, UN1593

Recommended use of the chemical and restrictions on use

Recommended Use Relining Agent.

Details of the supplier of the safety data sheet

**Supplier Address** 

Parkell, Inc. 300 Executive Drive Edgewood, NY 11717

**Emergency Telephone Number** 

Company Phone Number (631) 249-1134

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Clear liquid Physical State Liquid

#### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 3

#### **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

# Signal Word

Warning

#### **Hazard Statements**

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

May cause respiratory irritation. May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

# **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Get medical attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get immediate medical attention

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Methylene chloride	75-09-2	Proprietary
Proprietary Compound	Proprietary	Proprietary
Methyl methacrylate	80-62-6	Proprietary
Benzoyl peroxide	94-36-0	Proprietary

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST-AID MEASURES

Revision Date: 13-Jan-2015

#### **First Aid Measures**

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Get medical attention.

**Skin Contact**Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. If

skin irritation or rash occurs: Get medical advice/attention.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if discomfort persists.

**Ingestion** Do not induce vomiting, unless directed by medical personnel. Get immediate medical

attention.

#### Most important symptoms and effects

**Symptoms** May cause skin and eye irritation. May cause an allergic skin reaction. May cause

respiratory irritation. May cause drowsiness or dizziness.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water spray (fog). Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Flammable liquid and vapor.

Hazardous Combustion Products Carbon oxides. Phosgene. Hydrochloric acid.

**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from safe distance/protected location. Use water spray to keep fire-exposed containers cool.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protection recommended in Section 8.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for

disposal. Do not flush to sewer.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on Safe Handling** 

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges.

Revision Date: 13-Jan-2015

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

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away

from ignition sources and incompatible materials. Store locked up.

**Incompatible Materials** Acids. Alkalis. Oxidizing agents. Chemically active metals.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene chloride 75-09-2	TWA: 50 ppm	TWA: 25 ppm (vacated) TWA: 500 ppm (vacated) STEL: 2000 ppm 5 min in any 3 h (vacated) Ceiling: 1000 ppm STEL: 125 ppm see 29 CFR 1910.1052	IDLH: 2300 ppm
Proprietary Compound	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>
Methyl methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m³	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m³
Benzoyl peroxide 94-36-0	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m³ (vacated) TWA: 5 mg/m³	IDLH: 1500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

#### **Appropriate engineering controls**

**Engineering Controls**Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses.

**Skin and Body Protection** Impervious protective gloves.

**Respiratory Protection** Use self-contained breathing apparatus when needed.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Liquid **Appearance** Clear liquid Odor Not determined Color Clear **Odor Threshold** Not determined

Values Remarks • Method Property

Not determined Hq **Melting Point/Freezing Point** Not determined **Boiling Point/Boiling Range** Not determined Flash Point Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined

**Vapor Density** (Air=1) >1

**Specific Gravity** Not determined Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Avoid heat, ignition sources, moisture, aging, and contamination. Keep separated from incompatible substances. Keep out of reach of children.

#### **Incompatible Materials**

Acids. Alkalis. Oxidizing agents. Chemically active metals.

#### **Hazardous Decomposition Products**

Carbon oxides. Phosgene. Hydrochloric acid.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May cause an allergic skin reaction.

**Inhalation** May cause respiratory irritation. May cause drowsiness or dizziness.

**Ingestion** May be harmful if swallowed.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methylene chloride 75-09-2	> 2000 mg/kg (Rat)	-	= 76000 mg/m <sup>3</sup> (Rat) 4 h
Proprietary Compound	= 5800 mg/kg (Rat)	-	-
Methyl methacrylate 80-62-6	= 7872 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 4632 ppm (Rat) 4 h = 400 ppm (Rat) 1 h
Benzoyl peroxide 94-36-0	= 6400 mg/kg (Rat)	-	-

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause an allergic skin reaction.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

However, the product as a whole has not been tested. Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methylene chloride 75-09-2	A3	Group 2B	Reasonably Anticipated	X
Methyl methacrylate 80-62-6		Group 3		
Benzoyl peroxide 94-36-0		Group 3		

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity** 

Not determined

# 12. ECOLOGICAL INFORMATION

Revision Date: 13-Jan-2015

# **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methylene chloride 75-09-2	500: 96 h Pseudokirchneriella subcapitata mg/L EC50 500:	140.8 - 277.8: 96 h Pimephales promelas mg/L LC50 flow-through 262 - 855:	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna
	72 h Pseudokirchneriella subcapitata mg/L EC50	96 h Pimephales promelas mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L		mg/L EC50
		LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 flow-through		
Proprietary Compound		4.74 - 6.33: 96 h	EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia
, , , ,		Oncorhynchus mykiss mL/L		magna mg/L EC50 Static
		LC50 6210 - 8120: 96 h		12600 - 12700: 48 h Daphnia
		Pimephales promelas mg/L		magna mg/L EC50
		LC50 static 8300: 96 h		
		Lepomis macrochirus mg/L LC50		
Methyl methacrylate	170: 96 h	243 - 275: 96 h Pimephales		69: 48 h Daphnia magna
80-62-6	Pseudokirchneriella	promelas mg/L LC50		mg/L EC50
	subcapitata mg/L EC50	flow-through 125.5 - 190.7:		
		96 h Pimephales promelas		
		mg/L LC50 static 170 - 206:		
		96 h Lepomis macrochirus		
		mg/L LC50 flow-through		
		153.9 - 341.8: 96 h Lepomis		
		macrochirus mg/L LC50 static 79: 96 h Oncorhynchus		
		mykiss mg/L LC50		
		flow-through 79: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 static 326.4 - 426.9: 96		
		h Poecilia reticulata mg/L		
		LC50 static		

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Methylene chloride 75-09-2	1.25
Proprietary Compound	-0.24
Methyl methacrylate 80-62-6	0.7

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

**Disposal of Wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# **US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methylene chloride 75-09-2	U080	Included in waste streams: F001, F002, F024, F025, F039, K009, K010, K156, K157, K158		U080
Proprietary Compound		Included in waste stream: F039		U002
Methyl methacrylate 80-62-6	U162	Included in waste stream: F039		U162

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Methylene chloride	Category I - Volatiles		Toxic waste	
75-09-2			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free radical	
			catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

# California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methylene chloride 75-09-2	Toxic
Proprietary Compound	Ignitable
Methyl methacrylate	Toxic
80-62-6	Ignitable
Benzoyl peroxide	Toxic
94-36-0	Ignitable
	Reactive

14. TRANSPORT INFORMATION

Revision Date: 13-Jan-2015

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1992

**Proper Shipping Name** Flammable liquid, toxic, n.o.s. (Methyl methacrylate, Dichloromethane)

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group III

**IATA** 

UN1992

**Proper Shipping Name** Flammable liquid, toxic, n.o.s. (Methyl methacrylate, Dichloromethane)

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group III

**IMDG** 

UN/ID No UN1992

**Proper Shipping Name** Flammable liquid, toxic, n.o.s. (Methyl methacrylate, Dichloromethane)

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group III

# 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methylene chloride	Present	Χ		Present		Present	Χ	Present	Χ	Χ
Proprietary Compound	Present	Х		Present		Present	Х	Present	Χ	Χ
Methyl methacrylate	Present	Х		Present		Present	Х	Present	Х	Х
Benzoyl peroxide	Present	Х		Present		Present	Х	Present	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methylene chloride	1000 lb 1 lb		RQ 1000 lb final RQ
75-09-2			RQ 454 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ
Proprietary Compound	5000 lb		RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Methyl methacrylate	1000 lb		RQ 1000 lb final RQ
80-62-6			RQ 454 kg final RQ

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methylene chloride - 75-09-2	75-09-2	Proprietary	0.1
Methyl methacrylate - 80-62-6	80-62-6	Proprietary	1.0
Benzoyl peroxide - 94-36-0	94-36-0	Proprietary	1.0

#### **CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methylene chloride		X	X	
Methyl methacrylate	1000 lb			X

#### **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Methylene chloride - 75-09-2	Carcinogen

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methylene chloride 75-09-2	Х	Х	X
Proprietary Compound	Х	Х	Х
Methyl methacrylate 80-62-6	Х	Х	Х
Benzoyl peroxide 94-36-0	X	Х	X

# **16. OTHER INFORMATION**

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	2	3	3	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

Issue Date:21-Jan-2014Revision Date:13-Jan-2015Revision Note:New format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**