LANG®

Effective Date 23-Mar-2020

# SAFETY DATA SHEET

Version 4

# 1. IDENTIFICATION

<u>Product Identifier</u> Product Name		
Floudet Name	FLEXACRYL SOFT LIQUID	
Other means of identification		
SDS#	038	
UN/ID No	UN1993	
Product Code	1103, 110	04, 1106, 1107, 1108, 1109, 1123, 1134, 1156
Recommended use of the che		
Recommended Use	Modifying	dental prosthesis
Details of the supplier of the s	afoty data	sheet
Supplier Address		tal Mfg. Co., Inc.
Supplier Address	175 Mess	5
		, IL 60090
	USA	
	00/1	
Emergency telephone numbe	<u>r</u>	
Company Phone Number		+1-847-215-6622
Emergency Telephone (INFO	(RAC)	+1-352-323-3500 (International)
		800-535-5053 (North America)
Authorized European Represe	<u>entative</u>	MediMark <sup>®</sup> Europe Sarl
		11 rue Emile Zola. BP 2332 38033 Grenoble Cedex 2
		France
		Tel: +33 4 76 86 43 22
		Fax: +33 4 76 17 19 82
		Email: info@medimark-europe.com

# 2. HAZARDS IDENTIFICATION

### **Classification**

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Serious eye damage / eye irritation	Category 2A
STOT Single exposure	Category 3
Hazardous to the aquatic environment- Acute hazard	Category 2

### Signal word Warning

Hazard statements H226 Flammable liquid and vapor.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.



Physical state

Odor Acrid

#### **Precautionary Statements – Prevention**

P202 Do not handle until all safety precautions have been read and understood.

Liquid

- 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.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

### **Precautionary Statements – Response**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use CO<sub>2</sub>, dry chemical or foam for extinction.

Precautionary Statements – Storage	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P403+P235	Store in a well-ventilated place. Keep cool.

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

Hazardous component(s) for labeling Contains

Contains n-Butyl methacrylate

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Classification of the substance or mixture

Chemical Name	CAS No	Weight - %	Trade Secret
Citric Plasticizer	Proprietary	<50	*
N-Butyl Methacrylate	97-88-1	<50	*
Trimethylolpropane Trimethacrylate	3290-92-4	<5	*
N, N-Dimethyl-p-Toluidine	99-97-8	<5	*

\*Specific chemical weight has been withheld as a trade secret.

	4. FIRST AID MEASURES
First aid measures	
Inhalation	Remove victim to fresh air. Keep at rest in a position comfortable for breathing. Seek immediate medical
	attention if needed.
Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists call a physician immediately.
Ingestion	If ingested, do not induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested. Seek immediate
Skin Contact	medical attention. Wash with soap and water. If irritation, redness or swelling persists, call a physician immediately. Take off contaminated clothing and wash before reuse.
Most important symptom	s and effects, both acute and delayed
Symptoms	Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause an allergic
	skin reaction.
Indication of any immedia Note to physicians	ate medical attention and special treatment needed Treat symptomatically.
Note to physicians	near symptomatically.
	5. FIRE-FIGHTING MEASURES
Sensitivity to Standard Sensitivity to Standard Sensitivity to Standard Sensitive Sensitive Sensitivity to Stat	bustion Products:       Carbon oxides         atic Discharge:       Yes         precautions for firefighters         pparatus and suitable protective clothing should be worn in fire conditions.
	6. ACCIDENTAL RELEASE MEASURES
	tective equipment and emergency procedures Refere cleaning any spill or look, individuals must wear personal protective equipment as required
Personal precautions	Before cleaning any spill or leak, individuals must wear personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.
Environmental precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
Methods and material for c	containment and clean-up
	Collect spillage. Do not adsorb onto sawdust or other combustible materials. Transfer to a
	container for disposal or recovery. Use only non-sparking tools.
	7. HANDLING AND STORAGE
Precautions for safe handl	<b>ing</b> Do not eat, drink, or smoke at the work place. Wash thoroughly after handling. Avoid breathing vapors. Use in a well-ventilated area. The vapor is heavier than air: beware of pits and confined spaces. Ground container and receiving equipment. Use explosion proof electrical equipment. Use only non-sparking tools. Take precautionary measure against static charge.

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, open flame, hot surfaces – No smoking. Protect from sunlight. Methacrylate stored in bulk quantities must be kept in contact with air (oxygen). Keep at temperature not exceeding 30°C/86 °F. Monomer vapors are uninhabited and may form polymers in vent or flame arresters, resulting in blockage of vents.

Incompatible materials

Polymerization catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidizing agents.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH		
n-Butyl Methacrylate	STEL: n/a	n/a	n/a		
97-88-1	TWA: n/a				
ACGIH = American Conference of Goverr					
PEL = Permissible Exposure Levels / STE	L – Short Term Exposure Limit / TLV	/ – Threshold Limit Value / TWA = Time V	Veighted Average		
Appropriate engineering controls		Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate			
	local extraction, to ensure	that the occupational exposure limit	is not exceeded. Consideration		
	should be given to the wo	rk procedures involved and the poter	ntial extent of exposure as they may		
	determine whether a high	er level of protection is required.			
Engineering controls	Apply technical measures	Apply technical measures to comply with the occupational exposure limits.			
Individual protection measures, su	ch as personal protective equi	pment			
Eye / face protection Depending on the use of this product, safety glasses or goggles may be worn. If necessary, ref					
		US OSHA 29CFR SS1910.133 or the appropriate standards of Canada or the EC member states.			
	Ensure that an eyewash s	station, sink or washbasin is available	in case of exposure to eyes.		
Skin and body protection	If anticipated that prolonged and repeated skin contact will occur during use of this product, wear				
	gloves for routine use. If r	gloves for routine use. If necessary, refer to US OSHA 29CFR SS1910.138 or the appropriate			
	standards of Canada or th	ne EC member states. Wear suitable	protective clothing.		
Respiratory protection	No special respiratory pro	tection is required under typical circu	imstances of use or handling. If		
	necessary. use only respi	ratory protection authorized per US (	SHA requirement in 29 CFR SS		
		S state regulations, or the appropriat	-		
		ber states. VENTILATION: Local ex			
		IDEI SIGIES. VENTIERTION. LOCAI EXI	aust at processing equipment.		
General hygiene considerations	Handle in accordance with	h good industrial hygiene and safety	practice. Wash thoroughly after		
		s and tobacco products should not b			
		se. Wash hands thoroughly before each			
		se. wash hands thoroughly before e	ating, annihing, or antoking.		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid	Odor	Acrid
Color	Clear to slightly yellow	Odor threshold	Not determined
Property	Values	Remarks / Method	
pH	Not determined		
Melting point / freezing point	Not determined		
Boiling point / boiling range	Not determined		
Flash point	59°C / 13 <b>9</b> °F		
Evaporation rate	Not determined		
Flammability (solid, gas)	Not applicable		
Flammability limits in air			
Upper flammability limit	Not determined		
Lower flammability limit	Not determined		
Vapor pressure	Not determined		

Flexacryl Soft Liquid 038 v.4

Vapor density	Not determined
Specific gravity	0.978 g/mL
Water solubility	Not determined
Solubility in other solvents	Not determined
Autoignition temperature	Not determined

### **10. STABILITY AND REACTIVITY**

**<u>Reactivity</u>** Will exothermically polymerize in the presence of initiators.

**<u>Chemical stability</u>** Stable in the presence of inhibitor.

### Possibility of hazardous reactions

Hazardous polymerization Susceptible to polymerization initiated by prolonged storage or the presence of catalyst.

Conditions to avoid	Heat and direct sunlight.
Materials to avoid	Polymerization catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidizing agents.
Incompatible materials	Oxidizers
	Reducing agent
	Material has strong solvent properties and can soften paint and rubber.

Hazardous decomposition products

Does not decompose up to auto-ignition temperature.

# 11. TOXICOLOGICAL INFORMATION

Mixture ToxicityNo data availableComponent ToxicityNo data availableRoutes of ExposureNo data available

### **Component information**

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
N-Butyl Methacrylate 97-88-1	>2000 mg/kg	2000 mg/kg	4901 ppm (29 mg/l) 4 h
Trimethylolpropane Trimethacrylate 3290-92-4	>5000 mg/kg (rat)	-	-
N, N-Dimethyl-p-Toluidine 99-97-8	1650 mg/kg (rat)	>2000 mg/kg (rat)	498 mL/m <sup>3</sup> (rat)

### Information on physical, chemical and toxicological effects

Inhalation	May cause respiratory irritation.
Eye contact	Causes severe eye irritation.
Skin contact	Causes skin irritation.
Ingestion	May be harmful if swallowed.
Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
Sensitization	May cause allergic skin reaction.
Carcinogenicity	Not classifiable as a human carcinogen
STOT – single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT – repeated exposure	Not classified.

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### Component information N-Butyl methacrylate - Toxic to aquatic life.

Chemical Name	Algae / aquatic plants	Fish	Crustacea
N-Butyl Methacrylate 97-88-1	31.2 mg/l: 72 h selenastrum capricornutum mg/L EC50	11 mg/l: 96 h Pimephales promelas mg/L LC50 flow-through;	25.4 mg/l: 48 h Daphnia magna mg/L EC50
Trimethylolpropane Trimethacrylate 3290-92-4	-	-	-
N, N-Dimethyl-p- Toluidine 99-97-8	-	46-52 mg/l: 96 h Pimephales promelas mg/L LC50 flow-through	-

## **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

#### **Disposal of wastes**

Follow all local and national government regulations in disposing material or contaminated packaging. For U.S. - Dispose of in accordance with federal, state and local regulations.

#### **Contaminated Packaging**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers in accordance with local and national government regulations.

### **14. TRANSPORTATION INFORMATION**

### DOT

UN / ID No	UN1993	
Proper shipping name	Flammable liquid, n.o.s. (n-Butyl Methacrylate, stabilized /	
	Plasticizer solution)	
Hazard Class	3	
Packing Group		

For domestic ground shipments, containers of less than 450 L capacity are not regulated by DOT.

### IATA

UN / ID No	UN1993	
Proper shipping name	Flammable liquid, n.o.s. (n-Butyl Methacrylate, stabilized /	
	Plasticizer solution)	
Hazard Class	3	
Packing Group		

#### IMDG

UN / ID No	UN1993	
Proper shipping name	Flammable liquid, n.o.s. (n-Butyl Methacrylate, stabilized /	
	Plasticizer solution)	
Hazard Class	3	
Packing Group		

# **15. REGULATORY INFORMATION**

International	Inventories

TSCA DSL

United States Toxic Substances Control Act, Section 8(b) Inventory Listed

Listed Canadian Domestic Substances List

EINECS

Listed European Inventory of Existing Chemical Substances

EU Regulations	<ul> <li>EC No. 1272/2008 (CLP) Classification, Labeling, Packaging</li> <li>Medical Devices Directive 93/42/EEC - Class I Medical Devices</li> </ul>		
<u>US Federal Regulat</u>	ions SARA 302 – not listed, Extremely hazardous substance SARA 311 / 312 Hazard Categories - listed N-Butyl methacrylate 97-88-1 SARA 313 – not listed, N-Butyl methacrylate 97-88-1		

<u>US State Regulations</u> California Proposition 65 – Warning. This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: None

### US State Right-to-Know Regulations Not established

# **16. OTHER INFORMATION**

NFPA	Health Hazards	Flammability	Instability
	Not determined	Not determined	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards
	2	2	2

Effective Date 23-Mar-2020

### **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 guidance for safe handling, use, processing, storage, transportation, disposal and release. It 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