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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Name

EXCEL FORMULA™ POURABLE DENTURE MATERIAL (LIQUID)

 Based on methyl methacrylate:

 CAS-No.
 80-62-6

 EU Index No.
 607-035-00-6

 REACH No.
 01-2119452498-28

 EINECS-No.
 201-297-1

 Other Means of Identification

 SDS #
 SGT-004

Recommended Use of the C	hemical and Restrictions on Use
Recommended Use	Dental / Denture application.
Uses Advised Against	For Professional use only.

Details of the Supplier of the Safety Data Sheet Supplier Address St. George Technology, Inc.

P.O. Box 2849 Wilmington, North Carolina 28402-2849

Emergency Telephone Number

Company Phone Number Emergency Telephone 910-397-0781 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

<u>Signal Word</u> Danger

Hazard Statements Causes

skin irritation Causes severe eye irritation May cause an allergic skin reaction May cause respiratory irritation. May cause drowsiness or dizziness

SGT-004 - EXCEL FORMULA™ POURABLE DENTURE MATERIAL (LIQUID)

Highly flammable liquid and vapor



Appearance Colorless liquid

Physical State Liquid

Odor Characteristic

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace 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 Keep cool

Precautionary Statements - Response

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 irritation occurs If skin irritation or rash occurs: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Harmful to aquatic life with long lasting effects Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Methyl Methacrylate Monomer	80%62 266	> 96% %
1,4-Butanediol	2082-81-7	<4.0%
Dimethacrylate	218-218-1	

Product contains a proprietary mixture of ingredients. *Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek medical attention if irritation develops.
Inhalation	Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Ingestion	Rinse mouth. Do NOT induce vomiting. Seek medical advice.
Most Important Symptoms and Effects, both Acute and Delayed	
Symptoms	Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion

or loss of coordination. May cause skin and eye irritation. May cause allergic skin reaction.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically. Can cause allergic response in susceptible or hypersensitive
	individuals upon repeated or prolonged exposure.

Will cause gastrointestinal tract irritation.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, Dry chemical, Carbon dioxide (CO2).

Unsuitable Extinguishing Media Water jet.

Specific Hazards Arising from the Chemical

Vapors may travel to source of ignition and flash back.

Sensitivity to Static Discharge Take precautionary measures against static discharge. Flammable mixtures of this product are readily ignited even by 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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Remove all sources of ignition. The wet contaminated surface may be slippery.
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. Wash spill area with a mild detergent.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate static electric sparks. Use spark-proof tools and explosion-proof equipment. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Use only in well-ventilated areas. Keep containers closed when not in use. Keep cool.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store between 16°-26°C (69°-79°F). Store locked up. Protect from damp. Store away from heat and incompatible materials.

Incompatible Materials Organic peroxides, Reducing agent, Metallic Redox systems, Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl	STEL: 100 ppm	TWA: 100 ppm TWA: 410	IDLH: 1000 ppm
Methacrylate	TWA: 50 ppm	mg/m ³ (vacated) TWA:	TWA: 100 ppm
CAS No. 80-		100 ppm	TWA: 410 mg/m ³
62-6		(vacated) TWA: 410 mg/m ³	_

Appropriate Engineering Controls

Engineering Controls	Good ventilation is required.	
Individual Protection Measures, such as Personal Protective Equipment		
Eye/Face Protection	Splash goggles or safety glasses.	
Skin and Body Protection	Polyethylene / Nitrile gloves. Do not use cotton gloves. Polyethylene apron is recommended.	
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.	

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 Appearance Color	Liquid Colorless liquid Colorless	Odor Odor Threshold	Characteristic Not determined
<u>Property</u> pH Melting Point/Freezing Point	<u>Values</u> Not determined -48°C	Remarks • Method	
Boiling Point/Boiling Range Flash Point Evaporation	100 °C / 212 °F 8 °C / 46.4 °F +1	(at 760 mm Hg) Tag Closed Cup	
Rate Flammability (Solid, Gas) Upper Flammability Limits	Not determined 12%	(butyl acetate = 1)	
Lower Flammability Limit Vapor Pressure Vapor Density	1.5% 47hPa @20⁰C +1	(Air=1)	
Specific Gravity Water Solubility Solubility in Other Solvents	-1 Slightly soluble Not determined	(1=Water)	
Partition Coefficient Autoignition Temperature Decomposition Temperature	Not determined 430°C / 806°F Not determined		
Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Not determined Not determined Not determined Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Prolonged exposure to elevated temperatures which can cause premature polymerization and release methyl methacrylate vapors.

Hazardous Polymerization

Hazardous polymerization may occur.

Conditions to Avoid

Temperatures >35°C (95°).

Incompatible Materials

Organic peroxides, Reducing agent, Metallic Redox systems, Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact

Causes serious eye irritation.

Skin Contact	Causes skin irritation. May cause allergic skin reaction.
Inhalation	May cause irritation to the mucous membranes and upper respiratory tract.
Ingestion	Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Methacrylate	= >5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	= 29.8mg/l (Rat)4 h = 400 ppm (Rat)1 h

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Methacrylate Monomer		Group 3		

IARC (International Agency for Research on Cancer)

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

STOT - Single Exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	243 - 275: 96 h Pimephales promelas mg/L LC50 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		69: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

<u>Mobility</u>

Chemical Name	Partition Coefficient	
Methyl Methacrylate Monomer	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.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl Methacrylate	U162	Included in waste stream:		U162
		F039		

Chemical Name	California Hazardous Waste Status
Methyl Methacrylate Monomer	Toxic
	Ignitable

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Consumer Commodity
<u>IATA</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1247 Methyl methacrylate monomer, stabilized 3 II
<u>IMDG</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1247 Methyl methacrylate monomer, stabilized 3 II

15. REGULATORY INFORMATION

International Inventories

Not Determined

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

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl Methacrylate Monomer	1000 lb		RQ 1000 lb final RQ
			RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Trade Secret -		Proprietary	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl Methacrylate Monomer (Proprietary)	1000 lb			Х

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trade Secret	Х	X	Х

16. OTHER INFORMATION

<u>NFPA</u> HMIS	Health Hazards Not determined Health Hazards Not determined	Flammability Not determined Flammability Not determined	Instability Not determined Physical Hazards Not determined	Special Hazards Not determined Personal Protection Not determined
Issue Date Revision Date Revision Note	03-Jan-2011 31-May-2016 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