



Safety Data Sheet

Safety Data Sheet (in compliance with 29 CFR Part 1200 and 29 CFR Part 1020)

Document Number: SDS 062.003
Date Revised: 03/06/24

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled): Alpha-Dent® Plastic Conditioner
Part/Item Number: 544-0100-002

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Plastic Conditioner
Restrictions on Use: For Professional Use Only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: Dental Technologies, Inc.
Manufacturer/Supplier Address: 6901 N. Hamlin Avenue
Lincolnwood, IL 60712
Manufacturer/Supplier Telephone Number: 800-835-0885 or 847-677-5500 (Product Information)
Email address: info@dentalttech.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: Chemtrec
800-424-9300 (USA)
001-703-527-3887 (Outside USA)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3 (H335) Skin Irritant Category 2 (H315) Skin Sensitizer Category 1 (H317)	Acute Aquatic Toxicity Category 3 (H402)	Flammable Liquid Category 2 (H225)

2.2 Label Elements:



GHS09 GHS03 GHS07

Signal Word: Danger, Warning

Hazard Phrases	Precautionary Phrases
H225 Highly Flammable liquid and vapor H315 Causes skin irritation H317 May cause an allergic skin reaction H335 May cause respiratory irritation H402 Harmful to aquatic life	P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Gently wash with plenty of soap and water. P321 See Section 4 of this document for specific treatment. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P363 Wash contaminated clothing before reuse. P501 Dispose of contents/containers in accordance with local and national regulations. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a poison center or doctor/physician if you feel unwell. P403+P233 Store in a well ventilated place. Keep container tightly closed. P405 Store locked up. 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 equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower. P370+P378 In case of fire: use Chemical foam, Carbon Dioxide, or Dry Chemical to extinguish. P403+P235 Store in a well ventilated place. Keep cool. P273 Avoid release to the environment. P391 Collect spillage. Hazardous to the aquatic environment.

2.3 Other Hazards: None known.

2.3 Unknown acute toxicity (GHS-US): No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture:

Hazardous Components	C.A.S. #	Classification	WT %
Methyl Methacrylate	80-62-6	Flammable Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT (SE) Respiratory Tract 3, H335 Acute Aquatic Tox. 3, H402	50-75%

Isobutyl Methacrylate	97-86-9	Flammable liq. and vap., H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT (SE) Respiratory Tract 3, H335 Acute Aquatic Tox. 3, H402	25-50%
N,N-Bis(2-Hydroxyethyl)-p-Toluidine	3077-12-1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT (SE) Respiratory Tract 3, H335 Acute Oral Tox. 4, H302 Combustible dust	1-10%

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS Classifications.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye	Immediately flush victim's eyes with large quantities of water for 15 minutes, holding the eyelids apart. Have eyes examined and tested by medical personnel.
Skin	Wash skin with soap and water. If irritation persists, consult a physician.
Inhalation	Move victim to fresh air. Give artificial respirator if breathing has stopped. Seek medical attention.
Ingestion	Rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Causes eye burns. Causes skin burns. Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation. Inhalation is not expected for this product.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Not applicable.

Note to Physicians (Treatment, Testing, and Monitoring): Not applicable.

5. FIRE-FIGHTING MEASURES





5.1 Extinguishing Media: Chemical foam, Carbon Dioxide, or Dry Chemical

5.2 Special Hazards Arising from the Substance or Mixture:

Vapors may travel to ignition source and flash back. Explosive mixtures with air may occur at room temperature. Heated containers can build up pressure and explode. Cool fire exposed containers with water. Heat can initiate exothermic polymerization.

5.3 Advice for Fire-Fighters:



Fire Fighting Procedures:	General: Evacuate all personnel; use protective equipment for firefighting.
Precautions for Fire Fighters:	Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	HANDS	RESPIRATORY	SKIN
			

6.2 Environmental Precautions:

Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

6.3 Methods and Material for Containment and Cleaning up:

Clean up with absorbent material and remove residue with alcohol damp wipe. Rinse spill area with water.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with the eyes, skin and clothing. Wear protective clothing and equipment as described in Section 8. Wash thoroughly after handling. See product labeling.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool-dry place. See product labeling.

7.3 Specific End Use (s): Plastic conditioner.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Not determined.

8.2 Exposure Controls:



Individual Protection Measures (PPE)

Specific Eye/face Protection: Chemical safety goggles should be worn if needed to avoid eye contact.

Specific Skin Protection: Wear impervious gloves such as natural rubber or neoprene if needed to avoid skin contact. Consult glove supplier for thickness and breakthrough times.

Specific Respiratory Protection: None should be needed under normal use. Good ventilation should be sufficient.

Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Physical state:	Liquid	Relative density:	0.92 – 0.93 g/mL
Appearance:	Clear Liquid	Explosive limits:	Not Determined
Odor:	Not Determined	Vapor pressure (mmHg):	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH:	Not Determined	Solubility(ies):	Soluble in water; Miscible with most organic solvents
Melting/freezing point:	Not Determined	Partition coefficient: n-octanol/water:	Not Determined
Initial boiling point and boiling range:	Not Determined	Auto-ignition temperature:	Not Determined
Flash point:	15°C	Decomposition temperature:	Not Determined
Evaporation rate:	Not Determined	Viscosity:	Not Determined
Flammability (solid, gas):	Flammable liquid	Oxidizing Properties:	Not Determined
Explosive Properties:	Not Determined		

9.2 Other Information: None available

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable at ambient temperature and under normal conditions of use.

10.2 Chemical Stability: Stable at standard temperature and pressure

10.3 Possibility of Hazardous Reactions: Flammable.

10.4 Conditions to Avoid: Keep away from heat, sparks, flames, and other sources of ignition.

10.5 Incompatible materials: High temperatures, visible light sources, strong oxidizing agents. Keep away from sunlight and open flames.

10.6 Hazardous Decomposition Products: Oxides of carbon when burned.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Methyl Methacrylate:

STOT (SE) Respiratory Tract 3, H335 Methyl Methacrylate

Acute toxicity:	
Oral – Rat – LD50	7,900 mg/kg
Inhalation – Rat – 4h – LC50	78,000 mg/m ³
Dermal – Rabbit – male – LD50	5,000 mg/kg
Skin corrosion/irritation:	
Skin - Rabbit	Irritating to skin – 4h
Respiratory or skin sensitization:	
In vivo assay – Mouse	May cause an allergic skin reaction.
Repeated dose toxicity:	
Oral – Rat – male – NOAEL	≥124.1 mg/kg
Additional information: Central nervous system depression, drowsiness, irritability, dizziness, ataxia, narcosis, liver irregularities. The chemical, physical, and toxicological properties have not been thoroughly investigated.	

Isobutyl Methacrylate:

STOT (SE) Respiratory Tract 3, H335 Isobutyl Methacrylate

Acute Toxicity	
Oral – Rat – LD50	>5,000 mg/kg
Inhalation – Mouse – LC50	29.7 mg/L

N,N-Bis(2-Hydroxyethyl)-p-Toluidine:

STOT (SE) Respiratory Tract 3, H335 N,N-Bis(2-Hydroxyethyl)-p-Toluidine	
Respiratory tract irritant.	

Acute Oral Tox. 4, H302 N,N-Bis(2-Hydroxyethyl)-p-Toluidine	
Although ingestion is unlikely, ingestion may cause gastrointestinal irritation, diarrhea, nausea, and vomiting.	

12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not Determined. Acute Aquatic Tox. 3, H402: Methyl Methacrylate, Isobutyl Methacrylate

12.2 Persistence and Degradability: Not Determined.

12.3 Bio-accumulative Potential: Not Determined.

12.4 Mobility in Soil: Not Determined.

12.5 Results of PBT and vPvB Assessment: Not Determined.

12.6 Other Adverse Effects: Not Determined.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Regulations: Dispose in accordance with all national and local regulations.

Properties (Physical/Chemical) Affecting Disposal: None currently know.

Waste Treatment Recommendations: Dispose in accordance with national and local regulations.

14. TRANSPORT INFORMATION

14.1. UN number

UN1993

14.2. UN proper shipping name

Flammable liquids, N.O.S.

14.3. Transport hazard class(es)

3 (flammable)

14.4. Packing group

II

14.5. Environmental hazards

Harmful to aquatic life

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture: Please refer to Medical Device Directive 93/42/EEC.

N,N-Bis(2-Hydroxyethyl)-p-Toluidine (CAS No. 3077-12-1):

United States Toxic Substances Control Act Section 8(b) Inventory	Listed
Canadian Domestic Substances List/Non- Domestic Substances List	Listed
European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances	Listed
SARA 311/312	Acute health hazard, Reactive hazard
U.S. State Right-to-Know Regulations	Pennsylvania, New Jersey

Isobutyl methacrylate (CAS No. 97-86-9):

REACH (EU)	Registered
TSCA	Listed or exempted
SARA 311/312	Fire hazard, Acute health hazard
U.S. State Right-to-Know Regulations	Pennsylvania, New Jersey

Methyl Methacrylate (CAS No. 80-62-6):

SARA 313 Components	Methyl Methacrylate
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
State Right-to-Know Regulations	Massachusetts, Pennsylvania, New Jersey

15.2 Chemical Safety Assessment: None required.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health: 2	Flammability: 3	Reactivity: 2
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Full text of Classification abbreviations used in Section 2 and 3:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.

Supersedes: June 11, 2019

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Revision Summary: June 11, 2019: Converted MSDS to Reach SDS. Updated all sections. March 6, 2024: Updated to revised GF-404 Rev001 Template.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.

Manufacturer disclaimer:

FOR DENTAL USE ONLY. The information and recommendations are taken from sources (raw material MSDS(s), SDS(s) and manufacturers knowledge) believed to be accurate; however, the manufacturer makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.