

SAFETY DATA SHEET



TECHNOLOGY® Dental Materials Production

Top Die Spacer, Top Wax Finish, Top Die Sealer, Top Die Hardener, Top Marker, Top Thinner, Top Airstain Glaze, Top Natur-Glaze, Top Airstain/Natur Glaze Thinner, Top Wash Lacquer, Top Wash Lacquer Thinner, Top Air Opaque, Top Air Opaque Thinner

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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Top Die Spacer, Top Wax Finish, Top Die Sealer, Top Die Hardener, Top Marker, Top Thinner, Top Airstain Glaze, Top Natur-Glaze, Top Airstain/Natur Glaze Thinner, Top Wash Lacquer, Top Wash Lacquer Thinner, Top Air Opaque, Top Air Opaque Thinner.

Product type: Liquid

1.2 Relevant identified uses of the substance or mixture and uses advised against

N/A

1.3 Details of the supplier of the safety data sheet

DS TECHNOLOGY
23 HAMELAHIM ST
BEER-SHEVA ISRAEL 84510
Tel: +972-722829896, +972-772006636

E-mail address of person responsible for this SDS: N/A

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): N/A

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC

Product name	EU Classification
TOP DIE SPACER	F; R11 Xi; R36 R66, R67

2.2 Label elements

Labelling in accordance with 1999/45 (DPD)

Hazard symbol(s):

F - highly Flammable



Xi - irritant



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Risk phrase(s):

R11: Highly flammable.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Safety phrase(s):

S09: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 Other hazard

None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation:

Product/ Ingredient name	Identifiers	%	EU Classification
Methyl Ethyl Ketone	CAS number: 78-93-3 EC number: 201-159-0	49-80	F; R11 Xi; R36 R66, R67
n-Butyl acetate	CAS number: 123-86-4 EC number: 204-658-1	5-30	R10 R66, R67
Isopropanol	CAS number: 67-63-0 EC number: 200-661-7	20-30	F; R11 Xi; R36 R67
Acetone	CAS number: 67-64-1 EC number: 200-662-2	10-25	F; R11 Xi; R36 R66, R67

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.
See section 16 for the full text of the R-phrases declared above.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: In case of contact with skin wash off immediately with plenty of water for at least 10 minutes, and seek medical advice.

Inhalation: Remove from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

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Ingestion: Do NOT induce vomiting. Wash mouth thoroughly with plenty of water. Never give anything to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Vapors may cause irritation, drowsiness and dizziness. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote, contact Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable: Foam, dry chemical.

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Use tools that do not create sparks and adjusted to explosive atmosphere.

Large spill: As for small spill

Personal Protection in Case of Large Spill: Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

6.4 Reference to other sections

See Section 13 for additional waste treatment information.

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Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in a dry cool place. Keep containers tightly closed in a well-ventilated place. Keep away from ignition sources, sparks or open flame. Do not expose to direct sunlight. Store away from oxidizing agents.

7.3 Specific end use(s): N/A

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

Ingredient name	Occupational exposure limits
Methyl Ethyl Ketone	ACGIH TLV 200 ppm (TWA), 300 ppm (STEL)
n-Butyl acetate	ACGIH TLV 150 ppm (TWA), 200 ppm (STEL)
Isopropanol	ACGIH-TLV 200 ppm (TWA), 400 ppm (STEL)
Acetone	ACGIH-TLV 500 ppm (TWA), 750 ppm (STEL)

8.2 Exposure controls

Engineering Measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Eye/face protection: Wear protective safety glasses, goggles.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hand protection: Wear protective disposable gloves to prevent skin exposure.

Environmental exposure controls: N/A

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Colored liquid
Odour: typical
Odour threshold: N/A
pH: N/A
Melting point/Freezing point: N/A
Initial boiling point/boiling range: 79°C
Flash point: N/A
Evaporation rate: N/A
Flammability: N/A
Upper/lower flammability or explosive limits: N/A
Vapor pressure: N/A
Vapor density: N/A
Relative Density: ~1.0
Solubility(ies): non- soluble in water
Partition coefficient Octanol/Water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A
Explosive properties: N/A
Oxidizing properties: N/A

9.2 Other information

N/A

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Ignition sources, sparks or open flame. Direct sunlight.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous Decomposition products

Not available

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Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Test	Species	Dose
Methyl Ethyl Ketone	LC50, Inhalation	Rat	23500 mg/m ³ /8H
	LD50, Oral	Rat	2737 mg/kg
n-Butyl acetate	LC50, Inhalation	Rat	390 ppm/4H
	LD50, Oral	Rat	10768 mg/kg
Isopropanol	LC50, Inhalation	Rat	16000 ppm/8H
	LD50, Oral	Rat	5045 mg/kg
Acetone	LC50, Inhalation	Rat	5800 mg/m ³ /8H
	LD50, Oral	Rat	5045 mg/kg

Irritation: N/A

Corrosivity: N/A

Sensitization: N/A

Repeated dose toxicity: N/A

Carcinogenicity:

Isopropanol

IARC GROUP 3 - Not classifiable as to its carcinogenicity to humans.

ACGIH A4 - Not classifiable as human carcinogen.

Acetone

ACGIH A4 - Not classifiable as human carcinogen.

Mutagenicity: N/A

Toxicity for reproduction: N/A

Other information: N/A

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

N/A

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

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12.5 Results of PBT and vPvB assessment

N/A

12.6 Other adverse effects

N/A

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION

14.1 Un number:

ADR/RID: 1993

IMDG: 1993

IATA: 1993

14.2 Proper shipping name:

ADR/RID: FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Isopropanol)

IMDG: FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Isopropanol)

IATA: Flammable liquid, n.o.s. (Methyl ethyl ketone, Isopropanol)

14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

14.4 Packing group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazard

ADR/RID: -

IMDG: -

IATA: -

14.6 Special precautions for user

Not available

Additional information

ADR/RID: -

IMDG: -

IATA: -

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code

Not available

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Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Directives 67/548/EEC and 1999/45/EC (including amendments)
EU Regulation(EC) No.1907/2006 (REACH)

15.2 Chemical safety assessment

N/A

Section 16: OTHER INFORMATION

Full text of R-phrases referred to in sections 3:

R10: Flammable.
R11: Highly flammable.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases:

S09: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists
OSHA- Occupational Safety and Health Administration
NTP- National Toxicology program
IARC- International Agency for Research on Cancer
ND- Not Determined
N/A- Not available
R-phrases- Risk phrases
S-phrases- Safety phrases

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To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.