

Section 1: Identification

Product Identifier

Product Name ProLine Model & Die Conditioner, ProLine Model & Die Conditioner Thinner
Product Code 40450, 40451, 40452

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

Recommended use Used by dental professionals as a gypsum model hardening agent

Details of the supplier of the safety data sheet

Manufacturer/Supplier Vacalon Company Inc
12960 Stonecreek Dr Ste C
Pickerington, OH 43147 USA
www.vacalon.com • info@vacalon.com
Telephone (General) 614-577-1945

Emergency telephone number

Hazmat Services Inc (24 hour) 800-373-7542 (USA)
484-951-2432 (International)

Section 2: Hazard Identification

Classification of the substance or mixture

Hazard Category

- Flammable liquids, Category 2, H225
- Specific target organ toxicity - single exposure, Category 3, Central nervous system, H336
- Eye irritation, Category 2A, H319

Label elements

Signal word

- Danger

Pictogram

- GHS02, GHS07



Hazard statements

H225

- Highly flammable liquid and vapor

H319

- Causes serious eye irritation

H336

- May cause drowsiness or dizziness

Precautionary statements:

Prevention

P210

- Keep away from sparks and open flames. - No smoking.

P233

- Keep container tightly closed.

P280

- Wear protective gloves and eye protection.

P261

- Avoid breathing vapors.

P271

- Use only in a well ventilated area

P264

- Wash hands thoroughly after handling

Response

P303+P361+P353

- If on skin (or hair): Remove contaminated clothing. Rinse skin with water.

P304+P340

- If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312

- Call poison center or medical professional if you feel unwell.

P305+P351+P338

- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313

- If eye irritation persists: Get medical advice/attention.

Storage/Disposal

P403+P233

P501

P405

- Store in a well ventilated place. Keep container tightly closed. Keep cool.
- Dispose of content and/or container in accordance with applicable regulations.
- Store locked up.

Section 3. Composition/Information on Ingredients

Chemical characterization

- Mixture

Description

- Mixture of hazardous chemicals listed below with non-hazardous chemicals.

Hazardous Components

Chemical Name	Identifiers	%	Classification
Methyl Ethyl Ketone (Butanone)	CAS: 78-93-3 EC Number: 201-159-0	50% to 65%	Flam Liq. 2; Eye Irrt. 2A; STOT SE 3; H225, H319, H336

Section 4. First-Aid Measures

Description of first-aid measures

General

- If possible immediately remove any contaminated clothing or shoes.

Inhalation

- Move person to fresh air. If not breathing, give artificial respiration. Seek medical attention if problems persist.

Skin

- Wash with water and soap. Seek medical attention if irritation persists.

Eye

- Flush eyes with plenty of water and seek medical attention.

Ingestion

- Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out immediately. When in doubt, or if symptoms are observed immediately get medical attention.

Most important symptoms and effects, both acute and delayed

- Vapors may cause drowsiness or dizziness. Vapors can also irritate respiratory tract, skin and eyes. Repeated exposure may cause skin dryness or cracking.

Indication of any immediate medical attention and special treatment needed

- No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media

- Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

- No data available

Special hazards arising from the substance or mixture

- Vapors can form explosive mixtures with air.

Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Use water spray to cool unopened containers.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate all personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

- Prevent further leakage or spillage if safe to do so. Avoid run off to waterways and sewers

Methods and material for containment and cleaning up

Containment/Clean-up measures • Contain spillage. Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.

Reference to other sections No data available

Section 7. Handling and Storage

Precautions for safe handling

Handling • Avoid contact with skin or eyes. Avoid inhalation of vapors. Use only in well ventilated areas.

Information about protection against explosion and fires • Vapors can form explosive mixtures with air. Keep away from sources of ignition.

Condition for safe storage, including any incompatibilities

Technical measures and storage conditions • Keep container tightly sealed and in a cool, well ventilated area.
 Information about common storage area • No data available
 Additional storage information • Product should be stored at normal room temperatures at not subjected to storage temperatures above 50°C (122°F).

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational Exposure Limit Values
 Methyl Ethyl Ketone (CAS No. 78-93-3)
 OSHA PEL • 200 ppm (TWA)
 ACGIH-TLV • 200 ppm (TWA)

Exposure Controls

Engineering measures/controls • General ventilation should be provided, as necessary, to maintain exposures below PEL's or TLV's.

Personal Protective Equipment

- Respiratory • In case of insufficient ventilation, wear suitable respiratory equipment.
- Eye/Face • Wear chemical resistant safety glasses
- Hands • Wear appropriate chemical resistant gloves
- Skin/Body • Chemical resistant protective clothing or apron

General industrial hygiene considerations • Wash hands before breaks and at the end of work

Environmental exposure controls • Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9. Physical and Chemical Properties

Appearance/Description	Clear liquid with blue tint		
Odor	Sweet/sharp odor	Odor Threshold	No data available
pH	No data available	Specific Gravity	Approx. 0.95
Melting Point/Range	-86°C (-123°F)	Boiling Point/Range	80°C (176°F)
Water Solubility	Slightly, as dry film	Viscosity	No data available
Partition coefficient: n-octanol/water	No data available	Decomposition Temperature	No data available
Volatility			
Vapor Pressure	70 mmHg @ 20°C (68°F)	Vapor Density	> 1
Evaporation Rate	> 1	Explosive Properties	Product is not explosive. Vapors may form explosive mixtures with air.
Flammability (solid, gas)	Flammable		

Flash Point	> -4°C (25°F)	UEL	11.5%
Auto-ignition Temperature	516°C (961°F)	LEL	1.8%

Section 10. Stability and Reactivity

Reactivity	• Vapors can form explosive mixtures with air.
Chemical Stability	• Product is stable under recommended conditions of storage, usage and temperatures.
Possibility of hazardous reactions	• Vapors can form explosive mixtures with air.
Conditions to avoid	• Avoid contact with ignition sources (e.g. Sparks, open flames, heated surfaces)
Incompatible materials	• Strong oxidizing agents, strong acids and strong bases
Hazardous decomposition products	• Combustion will produce carbon dioxide and possibly carbon monoxide.

Section 11. Toxicological Information

Information on toxicological effects

Likely routes of exposure

- Eyes, Ingestion, skin contact, inhalation

Acute/potential health effects

Inhalation

- May cause drowsiness or dizziness
- Repeated skin contact may produce dry skin and cracking.
- Direct eye contact can cause eye irritation (e.g. redness, swelling, tears or burning) and temporary damage.

Skin

Eyes

Ingestion

- May cause temporary mechanical irritation of digestive tract, nausea, vomiting and diarrhea.

Sensitizing effects

- No data available

Acute toxicity data

Methyl Ethyl Ketone

- Oral Rat LD50: 2737 mg/kg
- Inhalation Mouse LC50: 32,000 mg/m³ (4 hours)
- Dermal Rabbit LD50: > 6480 mg/kg

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

- No data available

Carcinogenicity

- IARC, NTP or OSHA identifies no component of this product that is present at levels greater than or equal to 0.1% as a human carcinogen.

Section 12. Ecological Information

Ecotoxicity

- No data available

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in soil

- No data available

Other information

- Do not discharge product unmonitored into environment

Section 13. Disposal Considerations

Waste treatment methods

Recommendation

- Dispose of in accordance with all local, state and federal regulations.
- Dispose of in accordance with all local, state and federal regulations.

Contaminated packaging

Other

- Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste

regulations to ensure complete and accurate classification.

Section 14. Transport Information

Land Transport

- UN number • UN1263
- UN proper shipping name • Paint
- Transport hazard classes • 3
- Note • Product ships as "Limited Quantity" following proper DOT regulations.

Marine Transport

- UN number • UN1263
- UN proper shipping name • Paint
- Transport hazard classes • 3
- Marine pollutant • No

Air Transport

- UN/ID number • UN1263
- UN proper shipping name • Paint
- Transport hazard classes • 3
- Note • Vacalon does not normally ship by air. Check all necessary regulations for proper guidance.

Section 15. Regulatory Information

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

- OSHA Hazardous Communications Standard (29CFR 1910.1200) • This product is considered hazardous
- SARA Hazard Categories • Acute health, Fire
- TSCA • This product contains materials listed in the TSCA inventory or otherwise complies with TSCA requirements.
- CERCLA • Methyl Ethyl Ketone (RQ 5000 lbs)
- US - SARA - Section 313 • No reportable ingredients
- California Prop 65 • This product contains no chemicals known by the state of California to cause cancer or birth defects.

Section 16. Other Information

- Last Revision Date • New SDS
- Preparation Date • 03/01/2015
- Disclaimer

This document has been prepared using data from current manufacturer's SDS's of the component parts of the product and from other sources considered to be technically reliable. This document is not meant to be an all-inclusive document on worldwide hazard communication regulations and shall be used only as a guide. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment, in addition to complying with all Federal, State, Provincial and Local laws and regulations. The information contained in this SDS is furnished without warranty, expressed or implied, regarding the accuracy or results obtained from the use thereof. Vacalon assumes no legal responsibility for the use or reliance upon the data in this sheet. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information or the misuse of the product.

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