

MATERIAL SAFETY DATA SHEET  
KDS Manufacture UV GEL SEAL - Naked Seal

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**1. MATERIAL AND COMPANY IDENTIFICATION**

**Product Name** : UV GEL SEAL - Naked Seal

**Company** : KDS Manufacture  
8580 Younger Creek Drive  
Sacramento, CA 95828

**Emergency Telephone Number**  
**Chemtel Domestic (24hr) 1-916-381-9358**

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Concentration</b>
Di-Hema Trimethylhexyl Diacarbamate	Exempt	70-75%
PEG-4 Dimethacrylate	109-17-1	15-20%
Ethyl Methacrylate	97-63-2	5-10%
Hydroxycyclohexyl phenyl ketone	947-19-3	1-3 %
Violet 2 (CI 160725)	81-48-1	0-1%

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**HAZARD SYMBOLS** Xi, F **RISK PHRASES:** R22,R36/37/38, R43 **SAFETY PHRASES:**S18,S24/25,S36/37,S38,S46

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**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

**Flammable liquid and vapor**  
**May be slightly toxic**  
**May cause moderate skin injury (reddening and swelling)**  
**May cause chemical burn in eye**

**Health Hazards**

**Inhalation** : May cause respiratory tract irritation with presence of monomer. Vapors may cause dizziness.

**Skin Contact** : Repeated exposure may cause skin dryness or cracking. May cause reddening, swelling and sensitization

**Eye Contact** : Contains materials that are essentially nonirritating, but contact may cause slight transient irritation. Material may act as a Lachrymator (substance which increases the flow of tears).

**Ingestion** : May cause gastrointestinal irritation with nausea, vomiting & diarrhea.  
See Chapter 11 for details.

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**4. FIRST AID MEASURES**

**Inhalation** : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin Contact** : Remove contaminated clothing. Flush exposed area with water and soap for 15 minutes. Get medical aid if symptoms persist. Wash clothing before reuse

**Eye Contact** : Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get medical aide. Do NOT allow victim to rub or keep eyes closed.

**Ingestion** : If swallowed, do NOT induce vomiting: transport to nearest medical facility for additional treatment. IF conscious and alert, rinse mouth and drink 2-4 cupfuls of milk and/or water.

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**5. FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

**Flash point** : 110°F/ 43°C Penske-Martin  
**Auto ignition temperature** : No data

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- Extinguishing Media** : Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires
- Fire Fighting Instructions** : Remove ignition sources. Full protective clothing and self-contained breathing apparatus must be worn when approaching a fire in a confined space.
- Unusual Hazards** : High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid the use of a stream of water to control fires since frothing can occur.
- Additional Advice** : All storage areas should be provided with adequate fire fighting facilities. Keep adjacent containers cool by spraying with water.
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## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Observe all relevant local and international regulations.

Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth) and place in chemical waste container. Do not use combustible materials such as sawdust. Do Not flush to sewer!

US Regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802  
EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and flush spills away from exposures.

## 7. HANDLING AND STORAGE

- General Precautions** : Avoid breathing vapors or contact with material. Only use in Well-ventilated areas. Keep container closed when not in use. Avoid contact with heat, sparks and flame. Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Handling** : Avoid inhaling vapor and/or mists. Avoid contact with skin, eyes, and clothing. Use with adequate ventilation. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Do not pressurize, cut, weld, braze solder, drill, grind, or expose empty containers to heat, sparks, or open flames. **Material is extremely sensitive to light.** Do not expose to natural or UV light.
- Storage** : Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. The vapor is heavier than air. Beware of accumulation in pits and confined spaces. Vapors from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapor treatment system. Bulk storage tanks should be diked (bunded). Store at temperatures below 100 degrees F/38 degrees C.
- Explosion Hazard** : High temperatures and fire conditions may cause rapid and uncontrolled

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polymerization which can result in explosions and the violent rupture of storage vessels or containers.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** : Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

**Personal Protective Equipment** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. It is recommended that a hazard assessment in accordance with the OSHA PPE Standard, or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

**Respiratory Protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Where air- filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapors [boiling point <65°C (149°F)] meeting EN371. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1920.134 or European Standard EN 149.

**Skin Protection** : Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

**Eye Protection** : Chemical splash goggles (chemical monogoggles).

**Respiratory Protection** : A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by nuisance level organic vapor dust masks can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear. Semi-viscous liquid.  
Odor : Characteristic acrylate odor.  
pH : Not applicable.  
Boiling point : Not applicable.  
Flash point : 110 F / 43 C  
Explosion/Flammability : Not applicable.  
limits in air  
Auto-ignition temperature: No Data  
Vapour pressure : 20 C < 0.01 (mm Hg)  
Density : No Data  
Water solubility : Insoluble  
Octanol/water partition : Not applicable.  
Dynamic viscosity : N/DA  
Evaporation rate : No Data

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## 10. STABILITY AND REACTIVITY

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- Stability** : Stable under normal conditions of use.
- Conditions to Avoid** : Avoid heat, sparks, open flames and other ignition sources, Storage <100F/38C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.
- Materials to Avoid** : Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and string bases.
- Hazardous Decomposition Products** : Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.
- Hazardous Polymerization** : May occur – Uncontrolled polymerization may cause rapid evolution of heat and increased pressure that could result in violent rupture of sealed storage vessels or containers.
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### 11. TOXICOLOGICAL INFORMATION

- Basis for Assessment** : Information given is based on product testing.
- Acute Oral Toxicity** : No Information Available.
- Acute Dermal Toxicity** : No Information Available.
- Acute Inhalation Toxicity** : No Information Available.
- Skin Irritation** : No Information Available.
- Eye Irritation** : No Information Available.
- Respiratory Irritation** : No Information Available.
- Sensitisation** : No Information Available.
- Repeated Dose Toxicity**: No Information Available.
- Mutagenicity** : No Information Available.
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### 12. ECOLOGICAL INFORMATION

- Acute Toxicity**
- Fish** : No Information Available.
- Aquatic Invertebrates** : No Information Available.
- Algae** : No Information Available.
- Microorganisms** : No Information Available.
- Persistence/degradability**: No Information Available.
- Bioaccumulation** : No Information Available.
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### 13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Dispose of materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition, do not cut, drill, or weld on or near the container with compatible chemical which is less flammable and incinerate. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
- Container Disposal** : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.
- Local Legislation** : Local regulations may be more stringent than regional or national requirements and must be complied with.
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### 14. TRANSPORT INFORMATION

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**US Department of Transportation Classification (49CFR)**

Identification number : UN1993  
Proper shipping name : UN1993, Flammable liquids, n.o.s., 3, PGIII  
Marine Pollutant : No  
Special Provisions : N/A  
Class / Division : 3.2  
Emergency Response Guide 128

**IMDG**

Identification number UN1993  
Proper shipping name UN1993, Flammable liquids, n.o.s., PGIII  
Class / Division 3  
Packing group II  
Marine pollutant: No

**IATA (Country variations may apply)**

Identification number UN1993  
Proper shipping name UN1993, Flammable liquids, n.o.s., PGIII  
Class / Division 3  
Packing group II

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**15. REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**Federal Regulatory Status**

**Notification Status**

AICS	Listed.
DSL	Listed.
INV (CN)	Listed.
ENCS (JP)	Listed.
TSCA	Listed.
EINECS	Listed.
KECI (KR)	Listed.
PICCS (PH)	Listed.

**Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)**

None

**Clean Air Act**

None

**Clean Water Act (CWA) Section 311**

None

**SARA Hazard Categories (311/312)**

Immediate (Acute) Health Hazard. Fire Hazard.

**SARA Toxic Release Inventory (TRI) (313)**

Ethyl Methacrylate

**CA Right-To-Know Chemical List** : None  
**NJ Right-To-Know Chemical List** : Ethyl Methacrylate  
**MA Right-To-Know Chemical List** : Ethyl Methacrylate  
**FL Right-To-Know Chemical List** : Ethyl Methacrylate  
**MN Right-To-Know Chemical List** : None  
**PA Right-To-Know Chemical List** : Ethyl Methacrylate