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1. MATERIAL IDENTIFICATION

Product Name: **Koba UVG-1**

2. COMPOSITION

| HAZARDOUS COMPONENTS | CAS NO. | PERCENT | Exposure Limits | |
|-------------------------|-------------|---------|------------------|-------------|
| | | | ACGIH TLV-TWA | OSHA PEL |
| Acrylate Oligomer | Proprietary | <60 | N.E. | N.E. |
| Acrylate Ester | Proprietary | <40 | N.E. | N.E. |
| N,N-Dimethyl Acrylamide | 2680-03-7 | >10 | N.E. | N.E. |
| Photocuring Agent | Proprietary | < 5 | N.E. | N.E. |

Abbreviations: N.E. = Not Established

3. HEALTH HAZARDS IDENTIFICATION

Routes of Exposure: Eyes: Yes Skin: Yes Inhalation: Yes

Eye Contact: May cause persistent, severe injury.

Skin Contact: May cause severe irritation and sensitization. Symptoms can be delayed. Burns may result from prolonged contact. May be slightly toxic if absorbed through the skin.

Inhalation: May cause irritation, headaches, nausea, and dizziness if vapors are generated.

Ingestion: May be moderately toxic. If significant quantities are swallowed may be fatal.

4. FIRST AID MEASURES

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| Eyes: | Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Seek medical attention. |
| Skin: | Remove contaminated clothing, wipe from skin, and wash the area with soap and water for 15 minutes. Wash contaminated clothing thoroughly before reuse. If irritation persists obtain medical attention. |
| Inhalation: | Remove to fresh air, and provide oxygen or artificial respiration if needed. Obtain medical attention if irritation or difficulty persists. |
| Ingestion: | Do NOT induce vomiting. Give 3-4 glasses of water and obtain medical attention. |

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

| | |
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| Flashpoint: | >200 °F, estimated |
| Explosive Limits: | Not determined |
| Auto-Ignition Temperature: | Not determined |
| Hazardous Decomposition Products: | Carbon monoxide, carbon dioxide, and other toxic compounds |

Fire Fighting Instructions: Firefighters should be equipped with full bunker gear, including a positive pressure, NIOSH approved self-contained breathing apparatus. The use of a stream of water should be avoided. Fire conditions may cause rapid and uncontrolled polymerization.

Extinguishing Media: Use water, carbon dioxide, dry chemical, or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES

Ventilate the spill area, and evacuate if necessary. Beware of spontaneous polymerization. Remove all ignition sources. Absorb with an inert material, and dispose of properly. Flush the area with water. Clean-up personnel should be equipped with adequate protective gear.

7. HANDLING AND STORAGE

Store in a cool (<30 °C), dry place, in closed containers. Keep away from ignition sources, prolonged exposure to light, and temperatures above 100 °F. Avoid contact with incompatible materials. Do not create dusty conditions. Take precautionary measures against static discharge.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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|--|---|
| Engineering/Ventilation Controls: | General ventilation and local exhaust may be required to maintain airborne concentrations below the established exposure limits exposure when generating vapors or mists. |
| Respiratory Protection: | When airborne limits are exceeded, a NIOSH-approved respirator for organic vapors, a supplied-air respirator, or a self-contained breathing apparatus is required. |
| Skin Protection: | Neoprene gloves and protective clothing should be worn as necessary. |
| Eye Protection: | Chemical splash goggles or safety glasses with side shields should be worn as appropriate. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|-------------------------|
| Appearance: | Pale/transparent liquid |
| Boiling Point: | >430 °F |
| Vapor Pressure (mmHg): | <0.2 at 77 °F |
| Vapor Density (air=1): | Not determined |
| Evaporation Rate: | Not determined |
| Solubility in Water: | Negligible |

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions and use.

Conditions and Materials to Avoid: Keep away from ignition sources, prolonged exposure to light, and temperatures above 100 °F. Beware of conditions, which may lead to loss of dissolved air, or loss of polymerization inhibitors. Reacts with polymerization initiators such as peroxides, strong oxidizing agents, strong bases, copper, copper alloys, carbon steel, iron, and rust.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other toxic compounds.

Hazardous Polymerization: May occur.

11. TOXICOLOGICAL INFORMATION

This section provides toxicological information with regard to the pure form of the component indicated. It is suggested that persons trained in its evaluation interpret this information.

Photocuring Agent

| | |
|-------------------------------------|---|
| Acute Oral LD ₅₀ : | 2500 mg/kg, rat |
| Acute Dermal LD ₅₀ : | > 5000 mg/kg, rat |
| Acute Inhalation LC ₅₀ : | No rats died at a concentration of >1.0 mg/L during four-hour aerosol exposures for a 14-day observation period, with approximately 78% of particles less than 7 microns. |

12. ECOLOGICAL INFORMATION

No data found.

13. DISPOSAL CONSIDERATIONS

Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with applicable federal, state, and local environmental control regulations.

14. TRANSPORT INFORMATION**D.O.T. Classification:** Not Regulated**Hazard Class:** None **UN #:** None **PG:** None **ERG #:** None **Hazard Labels:** None**I.A.T.A. Classification:** Not Regulated**Hazard Class:** None **UN #:** None **PG:** None **ERG #:** None **Hazard Labels:** None**15. REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS****TSCA**

The chemical components of this product are included in the TSCA Chemical Substance Inventory, as required.

SARA TITLE III**Section 313 - Toxic Chemicals**

Pursuant to Section 313, this product does not contain any chemicals in a concentration equal to or greater than the *de minimis* level.

Section 311/312 - Hazard Categories

| | |
|------------------------------------|-----|
| Fire Hazard: | No |
| Reactivity Hazard: | Yes |
| Sudden Release of Pressure Hazard: | No |
| Immediate (Acute) Health Hazard: | Yes |
| Delayed (Chronic) Health Hazard: | Yes |

STATE REGULATIONS / RIGHT TO KNOW

California Proposition 65: This product is not known to contain any chemicals which are recognized by the State of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

| | | | |
|----------------------|-----------|-----------------|---------------|
| HMIS Hazards: | Health: 2 | Flammability: 1 | Reactivity: 2 |
| NFPA Hazards: | Health: 2 | Flammability: 1 | Reactivity: 1 |

This information is intended solely for the use of individuals trained in the use of this particular system.

Koba Industries, Inc. urges each customer or recipient of this MSDS to study it carefully in order to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate in order to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1 - notify its employees, agents, contractors, and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety. 2 - furnish this same information to each of its customers for the product. 3 - request its customers to notify their employees, customers, and other users of the product of this information.

The information contained herein is based on the data available to us and is believed to be correct. However, Koba Industries, Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Koba Industries, Inc. assumes no responsibility for injury from the use of the product described herein.