

# MATERIAL SAFETY DATA SHEET

MSDS: MG050-018-0035-US02  
Date Prepared: Sep. 9, 2009  
Date Revised : Dec. 2, 2009  
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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Head Cleaning Liquid

Company Name:

Kimoto Tech, Inc.  
601 Canal Street Cedartown, GA 30125 USA

Telephone Number:

TEL: +1-770-748-2643

FAX: +1-770-748-2648

Emergency Telephone Number:

CHEMTREC 1-800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	wt. %
Glycol ether compound	Company confidential	50 - 75
Oxetane, 3,3'-[oxybis(methylene)] bis[3-ethyl-.	18934-00-4	1 - 25
Esters of alicyclic acid	Company confidential	1 - 25

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

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*****  
* Clear colorless liquid. Slight Ether-like odor. *  
* May cause eye and mucous membrane irritation. May be harmful if *  
* swallowed. Inhalation of vapor or mist may cause irritation of nose *  
* and throat mucous membranes. *  
*****
```

### POTENTIAL HEALTH EFFECTS

Eye Effects : May cause eye and mucous membrane irritation.

Skin Effects : May cause slight skin irritation.

Ingestion Effects : May be harmful if swallowed.

Inhalation Effects: Inhalation of vapor or mist may cause irritation of nose and  
throat mucous membranes.

Chronic Effects/ Carcinogenicity:

None of the components in this material is listed by IARC, NTP or  
ACGIH as a carcinogen.

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## 4. FIRST AID MEASURES

- Eye** : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- Skin** : Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.
- Ingestion** : Wash out mouth with water. Drink one or two glasses of water. Get medical attention immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
- Inhalation**: Large amount of vapor or mist if inhaled, move victim to fresh air immediately. Get medical attention immediately.

## 5. FIRE FIGHTING MEASURES

- Flash Point** : 244.4 F (Glycol ether compound)
- Method Used** : Not available
- Flammable Limits** : Not available
- Autoignition Temperature** : Not available
- Flammability Classification**: IIIIB
- Unusual Fire and Explosion Hazard**: May be flammable by excessive heating.
- Extinguishing Media**: Water spray, dry chemical, carbon dioxide, foam.
- Fire Fighting**: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.
- Hazardous Combustion Products**: Carbon monoxide, carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

### Spill and Leakage Procedures:

Wear personal protective equipment (See Section 8). Ventilate closed spaces before entering. Eliminate all sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## 7. HANDLING AND STORAGE

### Handling:

Avoid contact with eyes, skin and clothing. Wear personal protective equipment (See Section 8). Use with adequate ventilation. Wash thoroughly after handling.

### Prevention of Fire and Explosion:

No special precautionary measures should be required under normal use conditions.

### Storage:

Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

INGREDIENTS	ACGIH TLV		
	TWA	STEL	OSHA PEL
Glycol ether compound	None established		None established
Oxetane, 3,3'-[oxybis(methylene)] bis[3-ethyl-.	None established		None established
Esters of alicyclic acid	None established		None established

**Engineering Controls:** Use process enclosures or local exhaust ventilation.

**Respiratory Protection:** A NIOSH/MSHA approved dust/mist respirator should be worn if needed.

**Skin Protection:** Impervious gloves should be worn. or Silvershield/4H sleeves with a thickness of no less than 2.7 mils have satisfied impervious to prevent dermal exposure during normal conditions of exposure within the work area for up to 8 hours.

**Eye Protection:** Splash goggles should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear colorless liquid  
**Odor** : Slight Ether-like odor  
**pH** : Not available.  
**Vapor Pressure** : Not available.  
**Vapor Density** : Not available.  
**Evaporation Rate:** Not available.  
**Boiling Point** : Not available.  
**Melting Point** : Not applicable.  
**Solubility** : 0.3wt% in water(Glycol ether compound)  
**Specific Gravity:** Not available.

## 10. STABILITY AND REACTIVITY

**Stability:** This product may polymerize with generation of heat on contact with oxidizer.

**Incompatibility:** Oxidizers.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION:

### Product

No data for mixture.

### Ingredients

#### Glycol ether compound

Acute oral toxicity : LD50: 3900mg/kg[rat]  
Acute dermal toxicity : LD50: 4040mg/kg[rabbit]  
Eye irritation : Mild[rabbit]  
Skin irritation : Mild[rabbit]  
Mutagenicity : Ames test Negative

#### Oxetane, 3, 3' -[oxybis(methylene)]bis[3-ethyl-.

Acute oral toxicity : LD50: 500~300mg/kg[rat]  
Subacute oral toxicity: 28-day repeated dose toxicity test[rat] NOEL male 40  
mg/kg/day, female 200 mg/kg/day  
Eye irritation : Moderate[rabbit]  
Skin irritation : Mild P. I. I. =1[rabbit]  
Skin sensitization : None 0%[guinea pig]  
Mutagenicity : Ames test Negative, Chromosomal aberration test Positive,  
Micronucleus test Negative

#### Esters of alicyclic acid

Acute oral toxicity : LD50: 34900mg/kg[rat], LD50: 20700mg/kg[mouse]  
Acute dermal toxicity : LD50: >20ml/kg[rabbit]  
Eye irritation : Severe[rabbit]  
Skin irritation : Mild[rabbit]  
Mutagenicity : Ames test Negative

## 12. ECOLOGICAL INFORMATION:

### Ingredients

#### Oxetane, 3, 3' -[oxybis(methylene)]bis[3-ethyl-.

Biodegradation : BOD=0 (28-Days Biodegradation)  
Bioaccumulation : Negligible  
Fish acute toxicity : 96hrLC50:76mg/l[Rainbow trout]  
Daphnia acute toxicity : 48hrNOEC:100mg/l[Daphnia magna]  
Algae growth inhibition: NOEC (growth):>100mg/l

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## 13. DISPOSAL CONSIDERATIONS:

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method. It is recommended that the material is dissolved or mix with a combustible solvent and burnt in a chemical incinerator equipped with an afterburner and scrubber. No release to water.

## 14. TRANSPORT INFORMATION:

DOT/TDG CLASS: Not regulated.

## 15. REGULATORY INFORMATION:

OSHA Hazard Communication Standard, 29CFR 1910.1200:

This product is considered hazardous under this standard.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):

None.

SARA Title III (Superfund Amendments and Reauthorization Act)

302 Extreme Hazardous Substance: None.

311/312 Hazard Categories: Immediate health hazard.

313 Reportable Ingredients: None.

TSCA (Toxic Substance Control Act):

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

• Oxetane, 3,3'-[oxybis(methylene)]bis[3-ethyl-]: TSCA SNUR (40 CFR 721.10095)

## 16. OTHER INFORMATION:

HMIS Hazard Rating Health:2, Flammability:1, Reactivity:0

The above information is believed to be accurate and represents the best information currently available to our company. However, our company make no warranty with respect to such information, and our company assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.