

# MATERIAL SAFETY DATA SHEET

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** VKC Base Breakers

**MANUFACTURER'S NAME:**  
Zotos International Inc

**EMERGENCY #:** (800) 584-8038 - 24 hours

**INFORMATION #:** (203) 656-7859 (8:30 am– 5:00 pm)

**ADDRESS (NUMBER, STREET, CITY, STATE, & ZIP CODE):**  
100 Tokeneke Road,  
Darien, CT 06820  
www.joico.com

**Distributed in the EU :**  
**Joico Laboratories Europe BV – Zotos Europe**  
**Grasbeemd 4**  
**5705 DG Helmond , The Netherlands**  
**Tel. + 31 492 553 999 (Monday through Friday 9.00 – 17.00)**

**Transportation Emergency (24 hour), contact : CHEMTREC – Phone # 1-800-424-9300 (US and**

**PREPARED: March 29, 2011**

**CURRENT MSDS UPDATE:**

## SECTION 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This is a personal care product that is safe for consumers and other users under intended and reasonably foreseeable use.

**Physical/chemical hazards:** The data available do not support any physical or chemical hazard.

**Human health hazards:** The data available do not support any adverse human health hazard.

**Environmental hazards :** The data available do not support any environmental hazard.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	TLV-TWA	PEL	OTHER LIMITS RECOMMENDED
Isopropyl Alcohol	67-63-0	200 ppm		
Ethanolamine	141-43-5	3 ppm		

**WARNING!**

**FLAMMABLE LIQUID AND VAPOR.**

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## SECTION 4. FIRST-AID MEASURES

**Route(s) of Entry:** Ingestion Inhalation Skin

**CAUTION:** THIS PRODUCT CONTAINS INGREDIENTS THAT MAY CAUSE SKIN IRRITATION ON CERTAIN INDIVIDUALS AND A PRELIMINARY TEST ACCORDING TO THE ACCOMPANYING DIRECTIONS SHOULD FIRST BE MADE.

**Health Hazards (Acute):**

**Skin Contact:** May induce hypersensitivity and elicit reactions on sensitized people.

**Eye Contact:** CAUTION: eye irritant. When Color is mixed with developers (hydrogen peroxide), the mixture may cause severe irritation and possible permanent eye injury.

**Inhalation:** Excessive inhalation of ammonia vapors may result in irritation of mucous membranes of the respiratory system.

**Ingestion:** Non-toxic.

**Health Hazards (Chronic):** For purposes of chronic exposure under the OSHA Hazard Communication Standard, this is an untested mixture. These products have been used extensively by consumers and Zotos is not aware of any significant adverse effects. None of the ingredients are carcinogenic or suspected carcinogens by NTP, OSHA, or IARC.

**Skin Contact:** Skin irritant. Can induce skin sensitization.

**Eye Contact:** Irritating to the mucous membrane of the eyes.

**Inhalation:** Irritating to the mucous membrane of the respiratory system. They may trigger asthmatic attacks in sensitive individuals. Induce respiratory hypersensitivity.

**Medical Conditions Generally Aggravated by Exposure:** Will be related to the primary toxic (pharmacologic) effect of this material; pre-existing dermatitis would likely be made worse by skin irritant, bronchitis is aggravated by irritant gases or particles in the air.

**First-aid measures**

**Inhalation:** For any signs of breathing difficulty or shortness of breath, remove person to fresh air. Increase ventilation. Seek IMMEDIATE medical attention.

**Skin contact :** Wash skin immediately with soap and water (do not use solvents). Change into clean clothing if spilled on clothes. Should allergic reaction develop, consult dermatologist.

**Eye contact:** Remove contact lenses, if used. Flush with water for 15 minutes immediately. Get medical attention IMMEDIATELY.

## SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** ABC all-purpose extinguisher, CO<sub>2</sub> extinguisher or water. The type of fire extinguisher should be in conformance with local fire regulations.

**Special fire-fighting procedures:** Contact emergency personnel. Use self-contained breathing apparatus and full protective gear, if large quantities of product are involved. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon and/or nitrogen; hydrocarbons and/or derivatives.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions :** Avoid contact with eyes, skin and clothing. Wear suitable protective clothing, gloves and eye/face protection.

**Spill or Leak Procedures:** Mop and flush with water. Floors can be slippery when wet. Wash floors with detergent and water.

## SECTION 7. HANDLING AND STORAGE

**Handling:** When handling the product, allow for materials and conditions which should be avoided (see Section 10). Avoid contact with skin and eyes.

**Specific use(s):** Not available.

**Storage:** Store in cool, dry and well-ventilated place. Avoid contamination. Store in the original tightly capped containers away from sunlight, heat, sparks and flame. Do not store any tint after it has been mixed with developer, the container may rupture.

**Packaging materials**

**Suitable:** Not available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures:** Special ventilation not required. Ventilation should be adequate to avoid build up of irritating concentrations.

**Hygiene measures :** When using do not eat, drink or smoke. Follow good housekeeping practices. Avoid all skin, eye and clothing contact.

**Personal Protective Equipment**

**Respiratory system:** With sufficient ventilation, extraction or closed system, breathing apparatus not necessary. When excessive or prolonged exposure is anticipated, a respirator is recommended.

**Skin and body:** Wear suitable protective clothing.

**Hands:** Wear suitable gloves (rubber or plastic).

**Eyes:** Under normal conditions, none required.

**Other protective equipment:** Not available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Fragranced
<b>Molecular weight:</b>	Not available.
<b>Boiling point:</b>	N/A
<b>Melting point:</b>	Not available.
<b>Density:</b>	1.1 - 2.1
<b>Vapour density (air=1):</b>	Not available.
<b>Vapor pressure :</b>	Not available.
<b>Specific gravity (H2O=1):</b>	0.985-1.05
<b>Solubility in water:</b>	Partly soluble
<b>Octanol/water partition:</b>	Not available

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**Coefficient pH:** 9.5 – 10.8  
**Flash point:** 92 °F (33.3° C)  
**% VOC** Complies with Federal and State regulations for VOC content.

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.  
**Hazardous reactions:** Not available.  
**Chemical Incompatibility:** Strong Acids, Metals  
**Hazardous Decomposition Products:** Ammonia  
**Special Conditions to Avoid:** Heat, sunlight

## SECTION 11. TOXICOLOGICAL INFORMATION

This is a personal care or cosmetic product that is safe for consumers and other users under intended and reasonably foreseeable use. Additional information on toxicological endpoints is available from the supplier upon request.

This product contains ingredients which may cause skin irritation on certain individuals and a preliminary test according to accompanying directions should first be made. This product must not be used for dyeing eyelashes or eyebrows; to do so may cause blindness.

**Toxicity:** Gleason Toxicity Rating: 3 (Gosselin, Hodge, Smith and Gleason) Moderately toxic if ingested.

**Acute toxicity:** N/A

**Dermal:** Repeated exposure may cause skin dryness or cracking.

**Eye irritation:** May be irritating.

**Chronic Effects:** Finished product is not expected to have chronic health effects.

**Target Organs:** No adverse health effects on target organs expected for finished product.

**Carcinogenity:** Finished product is not expected to be carcinogenic.

## SECTION 12. ECOLOGICAL INFORMATION

The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Methods of disposal:** Disposal should be in accordance with all applicable Local, State and Federal Regulations.

## SECTION 14. TRANSPORT INFORMATION

**DOT Class:** Exempt\_\_\_ Red Label: \_\_\_ Consumer Commodity ORM-D \_X\_\_\_  
Oxidizer \_\_\_ UN No.\_1219\_\_

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## SECTION 15. REGULATORY INFORMATION

**US Federal:** The product described in this Material Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetic Act and is safe to use as per directions on container, box or accompanying literature (where applicable). While this finished product is not considered hazardous as defined by OSHA in 29 CFR 1900. 1200(d), this MSDS contains valuable information critical to the safe handling and proper use of the product.

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This Material is not known to contain any chemicals currently listed as carcinogens or reproductive toxics under California Proposition 65 at levels which would be subject to the proposition.

**Canada:**

**CPR (Canadian Controlled Products Regulations):** All ingredients are CEPA approved for import to Canada. This product has been classified in accordance with the hazard criteria of the CPR and this MSDS

contains all information required by CPR.

**IDL (Canadian Ingredient Disclosure List):** Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):**

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

**European Union:**

**EINECS (European Inventory of Existing Commercial Chemical Substances):** Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

**Other:** Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

**Australia:**

Not classified as hazardous according to criteria of Worksafe Australia.

## SECTION 16. SUPPLIER INFORMATION

The information contained herein is, to the best of our knowledge and belief, accurate and reliable as of the date issued. We do not however, warrant or guarantee the accuracy or reliability, nor shall we be liable for any loss or damage arising out of the use thereof. The information is offered for the user's consideration and examination, and it is the user's responsibility to satisfy himself that it is suitable and complete for his particular use.

**Abbreviations:**

Na (N/A): Not Available

UNK: Unknown

NE (N/E): Not Established

ND (N/D): Not Determined