



5353 Spring Grove Avenue, Cincinnati, OH 45217 USA 513-471-8770

## Material Safety Data Sheet

### Section 1 - Product Identification

Product Name: Vulclean SK-4001

#### Hazard Rating

	Health	Fire	Reactivity		
NFPA Code:	1	0	0		
0=Least	1=Slight	2=Moderate	3=High	4=Extreme	

### Section 2 - Hazardous Ingredients / Identity Information

Specific Identity; Common Names	OSHA PEL	ACGIH TLV	Other
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Proprietary Formula - Specific Chemical Identities Have Been Withheld

111-42-2 Diethanolamine	3 ppm	0.460 ppm (skin)	
68603-42-9 Cocoamide DEA	-	-	
7320-34-5 Tetrapotassium Pyrophosphate	15 mg/m3	10 mg/m3	
7732-18-5 Water	-	-	

### Section 3 - Physical/Chemical Characteristics

Appearance	Lt. yellow liquid
Boiling Point, Deg. F	Not Known
Evaporation, BuAcetate=1	Slower than
Odor	Mild
pH	9.5-10.8
Solubility in water	Complete
Vapor Density (Air=1)	Not Known
Vapor Pressure	Not Known
Specific Gravity	1.070

### Section 4 - Fire and Explosion Hazard Data

Flash Point COC: NA Flammable Limits: LEL-Not Known UEL-Not Known  
 Extinguishing Media: Foam, dry chemical, water fog, carbon dioxide.  
 Special Fire Fighting Procedures: Cool fire exposed containers with water.  
 Do not enter a confined fire space without full bunker gear and NIOSH approved supplied air breathing apparatus.  
 Unusual Fire and Explosion Hazards: Product is water based and will not burn until water has evaporated.

### Section 5 - Reactivity Data

Stability -  
 Diethanolamine starts to decompose between 500-600F.  
 Incompatibility - Acids. Acrylates. Aldehydes. Ammonia. Strong bases. Calcium. Ketones. Magnesium. Moisture. Organic anhydrides. Organic halides. Strong oxidizing agents. Strong reducing agents. Sodium.  
 Hazardous Decomposition Products - Acrid fumes. Aldehydes. Ammonia. Ketones. Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus.  
 Hazardous Polymerization - Will not occur.



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Other -

This product contains amines. Do not mix with nitrite or other nitrosating agents due to the potential for nitrosamine formation.

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### Section 6 - Health Hazard Data

Routes of Entry: Inhalation-yes Skin-yes Ingestion-yes

Health Hazards:

The health hazards listed below are for components to this mixture. The active ingredients are diluted in water in this mixture and the severity of the listed health hazards for this product may be reduced. This product is designed to be diluted significantly with water before product use. The severity of these health hazards may be reduced further at usage concentrations.

(Acute and Chronic Overexposure)

Eyes - Burns if not removed. Damage. Mild discomfort. Severe irritation. May cause irritation. Redness. Stinging. Swelling. Tearing.

Skin - Burning. Burns can result from prolonged contact. Damage. Severe irritation. Prolonged contact may cause irritation. Redness.

Inhalation - Aspiration of liquid product may cause lung damage. Breathing difficulties. Coughing. Irritation. Nasal and respiratory irritation. Overexposure can result in kidney and liver damage.

Ingestion - Diarrhea. Drowsiness. Gastrointestinal irritation. Large quantities may have laxative effects. May cause gastrointestinal irritation. Nausea. Vomiting.

Signs And Symptoms of Exposure -

Diethylamine caused harm to the fetus (unborn pup) in a laboratory animal study. The relevance of this finding to humans is uncertain.

Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: nervous system effects, cardiac abnormality, kidney damage, liver abnormalities, blood abnormalities.

Medical Conditions Generally Aggravated By Exposure -

Preexisting skin and respiratory conditions may be aggravated by exposure. Rosin content may cause an allergic skin reaction to sensitized individuals.

Other Precautions - NA

Other -

NTP report TR-478 concludes for diethanolamine there is no evidence of carcinogenic activity for male & female rats, and clear evidence of carcinogenic activity for male & female mice.

Carcinogenicity NTP-No IARC-No OSHA-No

Emergency and First Aid Procedures: Inhalation - remove to fresh air. Skin contact - wash using a mild soap. Eye contact - flush with water, see a physician. Ingestion - call a physician.

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### Section 7 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Dike area. Recover free product. Add a dry absorbent material to spill area.

Waste Disposal Method: Dispose by methods consistent with local state and federal regulations.

Precautions to be Taken in Handling and Storing: Keep containers tightly closed. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. To dissipate static electricity during transfer, ground and/or bond both

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containers. Since emptied containers retain product residue, follow warnings even after container is emptied. Residue or vapors may explode on ignition; do not cut, drill, grind or weld on or near container even when empty.

Other Precautions:  
Not Applicable

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### Section 8 - Control Measures

Respiratory Protection: Not normally required. Use NIOSH approved supplied air breathing equipment if vapors are excessive.

Ventilation: Local Exhaust : Not normally required.  
Mechanical (General): Use general ventilation.

Protective Gloves: Use chemical-resistant gloves, if needed, to avoid skin contact.

Eye Protection: Use splash goggles or face shield when eye contact may occur.

Other Protective Clothing or Equipment: To prevent repeated or prolonged skin contact, wear impervious apron/clothing and boots.

Work/Hygienic Practices: Minimize breathing vapor, mist or fumes. Wash skin with soap and water after contact. Launder contaminated clothing.

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### Section 9 - Regulatory Information

#### DOT Information

DOT Proper Shipping Name: None  
DOT Hazard Code: None  
UN Number: None

#### TSCA

All components of this product are included in the TSCA inventory or are regulated under FIFRA.

#### Section 313 Supplier Notification

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

CAS#	Common Name	Weight%
111-42-2	Diethanolamine	2.5

This information should be included in all MSDSs that are copied and distributed for this material.

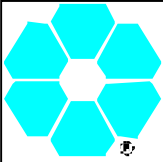
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Prepared according to the OSHA Hazard Communication Standard  
(29 CFR 1910.1200) by CCI Inc.

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**COOLANT  
CONTROL INC.**

Product Code: VULCLNSK400

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## **Material Safety Data Sheet**

**End of MSDS**