

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product Name: TAKE OFF

Product Use: Acid cleaner

WHMIS Class: Class E - Corrosive Material

TDG Classification: Phosphoric acid, liquid; Class 8; UN1805; PG III

Manufacturer/Supplier: Kemsol Products Ltd.

Address: PO Box 1577
Regina, SK
S4P 3C4

Telephone: (306) 569-0636

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
2-Butoxyethanol	111-76-2	7 - 13	20 ppm TWA	450 ppm 4 h, rat	320 mg/kg oral, rat
Citric acid	77-92-9	1 - 5	10 mg/m ³ TWA	Not available	3000 mg/kg oral, rat
Phosphoric acid	7664-38-2	30 - 60	1 mg/m ³ TWA	Not available	1530 mg/kg oral, rat

SECTION III - PHYSICAL DATA

Boiling Point (°C): Not available

Vapour Pressure (mm Hg): Not available

Vapour Density (Air = 1): Not available

Solubility in Water: Complete

Physical State: Liquid

Appearance; Odour: Clear colourless; strong pungent

Specific Gravity (H₂O = 1): 1.3

% Volatile (Wt %): Not available

Evaporation Rate (Ether = 1): Not available

pH (100%): 0.70

Viscosity: Slightly viscous

Odour Threshold (ppm): Not available

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Not flammable by WHMIS criteria.

Flash Point (°C, TCC): Not applicable **LEL:** Not applicable **UEL:** Not applicable

Hazardous Combustion Products: May include and are not limited to oxides of carbon, oxides of phosphorous.

Autoignition Temperature (°C): Not applicable

Means of Extinction: Dry chemical, alcohol foam, carbon dioxide.

Special Fire Hazards: Firefighters should wear self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: Stable.

Incompatible Materials: Caustics, metals, oxidizers.

Reactivity, and Under What Conditions: Reacts vigorously with alkaline materials and metals.

Hazardous Decomposition Products: May include and are not limited to oxides of carbon, oxides of phosphorous when heated to decomposition.

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SECTION VI - TOXICOLOGICAL PROPERTIES

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Route of Entry: Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

EFFECTS OF ACUTE EXPOSURE:

Eye: Causes chemical burns. May cause blindness.

Skin: Causes chemical burns. May be absorbed through the skin.

Inhalation: May cause respiratory tract irritation.

Ingestion: Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

EFFECTS OF CHRONIC EXPOSURE:

Skin: Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged; may cause blood damage based on published data; these effects have not been observed in humans.

Irritancy: Hazardous by WHMIS criteria.

Respiratory Tract Sensitization: No data available.

Carcinogenicity: Non-hazardous by WHMIS criteria.

Teratogenicity, Mutagenicity, Reproductive Effects: No data available.

Synergistic Materials: Not available.

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SECTION VII- PREVENTATIVE MEASURES

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Gloves: Rubber gloves. Confirm with a reputable supplier first.

Eye Protection: Chemical splash goggles.

Respiratory Protection: Not normally required if good ventilation is maintained.

Other Protective Equipment: As required by employer code.

Engineering Controls: General ventilation normally adequate.

Leak and Spill Procedure: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

Waste Disposal: Review federal, provincial, and local government requirements prior to disposal.

Storage and Handling Requirements: Keep out of reach of children. Store in a closed container away from incompatible materials.

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SECTION VIII - FIRST AID

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Eye: Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin: Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

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SECTION IX - PREPARATION INFORMATION

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Date: 06/01/09

MSDS Prepared By: Kemsol Products Ltd.

Telephone: (306) 569-0636

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Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-905-572-4400) or CSST in Montreal, Quebec (514-873-3990).