

# Material Safety Data Sheet

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1).  
Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

Validation Date 04-22-2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Machine Cleaner

**Product Code** 786

**Chemical Family** Miscellaneous  
**Material Uses** Cleaner

**Manufacturer** Hangsterfer's Laboratories, Inc.  
175 Ogden Road  
Mantua, NJ 08051  
Phone 856-468-0216  
Fax 856-468-0200  
For more information contact: [bblattenberger@hangsterfers.com](mailto:bblattenberger@hangsterfers.com)

**Emergency Telephone Number** Chemtrec 1-800-424-9300 in US  
Canutec 1-613-996-6666 in Canada  
For international assistance, dial Chemtrec US number 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Acute Health Effects

**Skin** Concentrate is a skin irritant.

**Eye** Risk of serious damage to eyes.

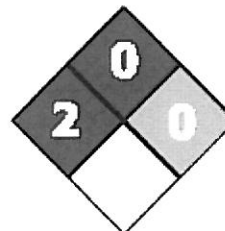
**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Harmful if swallowed.

### HMIS

Health Hazard	2
Fire Hazard	0
Reactivity	0

### NFPA



**Chronic Health Effects** No information available.

**Carcinogenic Effects** Information on individual ingredients which may have carcinogenic effects, if any, will be found in Section 11 and 15.

**Aggravated Medical Conditions** No information available.

## Machine Cleaner

### Miscellaneous Hazards

Avoid prolonged and/or repeated contact with skin. Prolonged and/or repeated contact with this material may produce mild skin irritation or inflammation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Components

Chemical Name	CAS-No	Weight %	OSHA PEL	Carcinogen Lists	ACGIH TLV
Alkyl ethoxylated alcohol	Proprietary	5- 9.99	Not Listed	See Section 11	Not Listed
Alkyl ammonium carbonate	Proprietary	1 - 4.99	Not Listed	See Section 11	Not Listed

If any of the components of this product are defined as hazardous by OSHA Hazard Communication Standard 1910.1200 and are present at 1% or more (0.1% or more for carcinogens) they will be listed in this section. If no components appear in this section, no components of the product meet or exceed the reporting requirements. OSHA PELs and ACGIH TLVs refer to the concentration in air of the specific chemical as measured by specific analytical methods.

## 4. FIRST AID MEASURES

### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

### Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

### Inhalation

Move to fresh air. Consult a physician if necessary.

### Ingestion

Do not induce vomiting. Drink plenty of water. Consult a physician if necessary.

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

Material may burn but does not ignite readily.

### Suitable Extinguishing Media

Water spray or fog, dry chemical, carbon dioxide (CO<sub>2</sub>) or foam. Cool containers with flooding quantities of water until well after fire is out.

### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

### Hazardous Combustion Products

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Oxides of nitrogen and ammonia vapors.

### Specific Hazards Arising from the Chemical

May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Machine Cleaner

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Remove all sources of ignition.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
<b>Methods for Clean-up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
<b>Other Information</b>	Report spills as required to the appropriate authorities.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes. Keep in a well ventilated place. Do not puncture, crush or incinerate containers.
<b>Storage</b>	Keep container tightly closed in a dry and well ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical Name	ACGIH TLV	OSHA PEL	Quebec OEL	Ontario TWAEV	EU OEL
Alkyl ethoxylated alcohol	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Alkyl ammonium carbonate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Eye/face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Long sleeved clothing. Wear protective gloves/clothing.
<b>Respiratory Protection</b>	If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless.	<b>Odor</b>	Mild.
<b>Physical State</b>	Liquid.	<b>pH (10% soln/water)</b>	No data available.
<b>Flash Point</b>	Not applicable.	<b>Boiling Point/Range</b>	68°C / 155.4°F
<b>Melting Point/Range</b>	No data available.	<b>Solubility In Water</b>	Completely soluble.
<b>Specific Gravity (Water=1)</b>	1.035	<b>Vapor Density (Air=1)</b>	No data available.
<b>Vapor Pressure</b>	10.02 psi	<b>Volatility</b>	0.0
<b>VOC Content, % Vol</b>	0.0		
<b>Viscosity</b>	No data available.		

## 10. STABILITY AND REACTIVITY

## Machine Cleaner

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
<b>Incompatible Materials</b>	Acids. Incompatible with oxidizing agents. Alkaline.
<b>Hazardous Decomposition Products</b>	Carbon oxides., Nitrogen oxides (NOx) and ammonia.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

**LD50 Oral:** No information available.

**LD50 Dermal:** No information available.

The table below indicates toxicological information for specific ingredients indicated. If no table appears, no toxicological information was found.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl ethoxylated alcohol	2,700 mg/kg Rat	>4,000 mg/kg Rat	No information available
Alkyl ammonium carbonate	245 mg/kg Rat	3,342 mg/kg Rat	No information available

**Irritation** Product is a skin irritant and a severe eye irritant.

**Corrosivity** Not expected to be corrosive. Based on data on components.

**Sensitization** No information available.

**Chronic Toxicity** No information available.

**Carcinogenicity** This product contains no ingredients with a concentration of 0.1% or more which are known to be carcinogenic.

Chemical Name	IARC	ACGIH	NTP Carc	OSHA
Alkyl ethoxylated alcohol	Not Listed	Not Listed	Not Listed	Not Listed
Alkyl ammonium carbonate	Not Listed	Not Listed	Not Listed	Not Listed

**Other Adverse Effects** No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Ecotoxicity and biodegradability of this complete mixture have not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water and should not be considered readily biodegradable. If information is available on any of the individual components listed in Section 2, it will appear in a table below.

Chemical Name	Freshwater Algae	Freshwater Fish Species Data	Water Flea	DOT Marine Pollutant
Alkyl ethoxylated alcohol	0.95 mg/l	6 mg/l (96h-fathead minnow) 5-7 mg/l (96h-rainbow trout)	2.5 mg/l (48 h-Daphnia)	Not Listed

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Chemical Name	Freshwater Algae	Freshwater Fish Species Data	Water Flea	DOT Marine Pollutant
Alkyl ammonium carbonate	No information available	0.810 mg/l (96 h-rainbow trout) 0.28 mg/l (96 h-bluegill sunfish) 1.110 mg/l (96 h-sheepshead minnow)	0.073 mg/l (48 h-Daphnia)	Not Listed

**Persistence/Degradability** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of contents/container in accordance with local regulation.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated.  
**TDG** Not regulated.  
**MEX** Not regulated.  
**ICAO** Not regulated.  
**IATA** Not regulated.  
**IMDG/IMO** Not regulated.  
**RID** Not regulated.  
**ADR** Not regulated.  
**ADN** Not regulated.

**15. REGULATORY INFORMATION**

**U.S. Regulations & Inventories** No regulatory requirements found. All components of this product are either listed on the TSCA inventory or are exempt from listing requirements.

Chemical Name	CAS-No	TSCA 12(b)	CERCLA/SARA 313 (de minimis concentration)	SARA Hazardous Substance Required Qty
Alkyl ethoxylated alcohol	Proprietary	Not Listed	Not Listed	Not Listed
Alkyl ammonium carbonate	Proprietary	Not Listed	Not Listed	Not Listed

**U.S. State Right-to-Know Regulations** Not known to contain any chemicals listed under California Proposition 65.

**Canada Regulations & Inventories** No regulatory requirements found. All components of this product are either listed on applicable inventories or are exempt from listing requirements.

## Machine Cleaner

This product has been classified in accordance with the hazard criteria of the Canadian CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR.

Product Classification: D2B

Chemical Name	CAS-No	WHMIS
Alkyl ethoxylated alcohol	Proprietary	Not listed
Alkyl ammonium carbonate	Proprietary	Not listed

**International Regulations & Inventories** No regulatory requirements found. The information on global inventory compliance is incomplete for this product.

## 16. OTHER INFORMATION

### Regulatory Lists Searched & Other Sources of Information

ACGIH - American Convergence of Governmental Industrial Hygienists  
ADN - European Agreement for International Carriage of Dangerous Goods by Inland Waterways  
ADR - European Agreement for International Carriage of Dangerous Goods by Road  
AICS - Australian Inventory of Chemical Substances  
ANSI - American National Standards Institute  
CAP65 - California Proposition 65 Hazard List  
CAS - Chemical Abstract Services  
CERCLA - Comprehensive Environmental Response, Compensation & Liability Act  
CHINA - China Inventory  
CPR - Canadian Controlled Products Regulations  
DOT - United States Department of Transportation  
DSL - Canada Domestic Substances List  
EINECS - European Union (EU) European Inventory of Existing Commercial Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
ICAO - International Civil Aviation Organization  
IMDG - International Maritime Dangerous Goods Code  
MARTK - Massachusetts Right To Know List  
NDSL - Canada Non-Domestic Substances List  
NFPA - United States National Fire Protection Association  
NIOSH - United States National Institute for Occupational Safety & Health  
NJRTK - New Jersey Right To Know List  
NTP - United States National Toxicology Program  
OSHA - United States Occupational Safety & Health Administration  
PARTK - Pennsylvania Right To Know List  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
RCRA - United States Resources Conservation & Recovery Act  
RID - European Agreement for International Carriage of Dangerous Goods by Rail  
RIHSL - Rhode Island Hazardous Substance List  
SARA - United States Superfund Amendments & Reauthorization Act  
TDG - Canada Transportation of Dangerous Goods Act  
TSCA - US Toxic Substances Control Act  
WHMIS - Canada Workplace Hazardous Materials Information System

### Definitions

EC50 - Effective Concentration (Concentration of a compound where 50% of the expected effect is observed.)  
LC50 - Lethal Concentration (The concentration in water that will kill 50% of the test animals within a specific period of time, usually 96 hours.)  
LD50 - Lethal Dose (The single dose that will kill 50% of the test animals by any route other than inhalation such as by ingestion or skin contact.)  
OEL - Occupational Exposure Limit  
PEL - Permissible Exposure Limits  
STEL - Short Term Exposure Limit  
TLV - Threshold Limit Value

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TWA - Time Weighted Average  
TWAEV - Time Weighted Average Exposure Value

**Preparation Date** 02-10-2009

**Revision Date** 02-10-2009

**Revision Number** 2

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS