

Evaporation Rate (Ether-1) < 1.00

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY

STABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with strong oxides.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"A"

11 TOXICOLOGICAL INFORMATION

Oral LD50 RAT: >2,000 mg/kg

NOTE - Estimated value

Dermal LD50 RABBIT: >2,000 mg/kg

NOTE - Estimated value

12 ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

No Data Available.

BIODEGRADATION

No Data Available.

13 DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 TRANSPORT INFORMATION

DOT HAZARD: Not Applicable

UN / NA NUMBER: Not applicable

DOT EMERGENCY RESPONSE GUIDE #: Not applicable

15 REGULATORY INFORMATION

TSCA:

All components of this product are listed in the TSCA inventory.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

No regulated constituent present at OSHA thresholds

SARA SECTION 312 HAZARD CLASS:

Product is non-hazardous under Section 311/312

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds
CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC
ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituents present
MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	0	Minimal Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	17-JUN-1997		** NEW **
	02-SEP-2004	16	17-JUN-1997



100% CANADIAN OWNED

Poulin's Pest Control

N.L. POULIN LIMITED - ISO 9001: 2000

HEAD OFFICE - 24 POULIN DRIVE
 WINNIPEG, MANITOBA R2H 0S9 PHONE (204) 233-2500 FAX (204) 231-1156
 E-mail: winnipeg@poulinspetcontrol.com Toll Free 1-888-768-3467

Serving Western Canada

Winnipeg	(204) 233-2500
Brandon	(204) 727-7934
Regina	(306) 467-0329
Swift Current	(306) 779-4866
Saskatoon	(306) 242-8299
Calgary	(403) 272-8096
Edmonton	(403) 525-2491
Medicine Hat	(403) 528-6297
Edmonton	(780) 477-1671
Vancouver	(604) 437-7525

MATERIAL SAFETY DATA SHEET REVISED: February 26, 2004

1438A

PRODUCT IDENTIFICATION

PRODUCT NAME: POULIN'S C PLUS C
CSDS NUMBER: PE-153
PRODUCT DESCRIPTION: INSECTICIDE

HEALTH INFORMATION AND PROTECTION

Skin: Causes irritation. Repeated or prolonged contact may cause defatting and dermatitis.

Ingestion: May cause symptoms similar to Inhalation. Small amount of vomited liquid inhaled may cause severe lung irritation which may result in suffocation and may ultimately be fatal.

Inhalation: May cause irritation of nose and throat, headache, dizziness, sneezing, nasal stuffiness and discharge, nausea, vomiting, diarrhea, weakness, and incoordination.

Eyes: Causes irritation, no other information available.

PRECAUTION

Ventilation: When used outdoors, stay upwind. Indoors, effective local ventilation required if in a form which may become airborne (e.g. Sprayed, heated); otherwise, good general ventilation normally adequate.

Handling and Special Protection: Wear respirator approved by NIOSH/MSHA for pesticides during application. Wear also in other circumstances where pesticide may become airborne and where effective local ventilation is not provided. (Note: For very high exposure or where lack of oxygen may occur wear only self-contained or supplied air respirator). Wear impervious gloves and either coveralls or laboratory coat. Impervious boots and suit required if sprayed or large quantities handled. Safety goggles required.

FIRST AID

Eye Contact: Immediately flush with a gentle stream of water for at least 15 minutes, lifting upper and lower lids occasionally. Obtain medical attention if irritation persists after flushing.

Skin contact: Wash exposed skin thoroughly with water while removing contaminated clothing. Obtain medical attention if irritation persists or if large area of contact

Remember...

WE FIGHT DISEASE THROUGH PEST CONTROL AND SANITATION



Poulin's

C plus C Insecticide

COMMERCIAL

READ LABEL BEFORE USING

GUARANTEED CONTENTS:

Pyrethrins	0.10%
Technical Piperonyl Butoxide	1.60%
Inert Ingredients	<u>98.24%</u>
	100.00%

Registration No. 14,309
Pest Control Products Act

EFFECTIVE FOR PURPOSE CLAIMED

POULIN'S LIQUID INSECTICIDE — is effective as a fog, contact or surface spray.

For use in food plants, hospitals, restaurants, supermarkets, motels, hotels, etc., barns, milking parlours and dairies.

For **MEAT-PACKING PLANTS** — Use as directed for flying and crawling insects, taking the necessary precautions as follows:

CAUTION

- **READ LABEL BEFORE USING**
- **KEEP OUT OF REACH OF CHILDREN**
- **DO NOT TAKE INTERNALLY**
- **THIS PRODUCT CONTAINS PETROLEUM DISTILLATES**

If swallowed, do not induce vomiting. Get medical attention immediately. Avoid contamination of food. Food processing plants should be logged when not in operation. Food should be removed or covered during treatment. Food processing equipment should be covered or thoroughly cleaned before using. Store away from heat or flame. Fabrics which are soiled or dusty may be stained by insecticidal fogs.

In meat packing and meat processing plants, only spray when plant is not in operation. No exposed meat products, ingredients or packaging materials to be left in the room and cover food handling equipment. Any treated surface that may contact meat food products should be washed or rinsed thoroughly with potable water after spraying and before re-use for food processing.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

DIRECTIONS FOR USE

Flying Insects: exposed stages of flies, fruit flies, mosquitos, gnats, bees, wasps, hornets, Indian meal moth, angoumois grain moths, mediterranean flour moths.

To control these and similar small flying insects, turn off all ventilating equipment, close all windows and doors. Fog **POULIN'S C plus C** at a rate of 28 ml/litres per 27 cubic using the Jet Fogger or Permanent Atomizer. Example, 3 metres high x 3 metres long x 3 metres wide = 27 cubic metres.

Keep treated area closed for at least 10 minutes. Repeat as necessary. Do not remain in treated areas and ventilate the area after treatment is completed.

Crawling Insects: exposed stages of cockroaches, silverfish, termites, booklice, bedbugs, ants, crickets, spider beetles, meal worms, cadellies, confused flour beetles, saw-toothed grain beetles, weevils, dermestids, spiders, ticks, lice, millipedes, centipedes, sowbugs.

For space spray - turn off all ventilating equipment, close all doors and windows.

For Contact or Surface Spray - Apply **POULIN'S C plus C INSECTICIDE** using 610-S Sprayer. Spray directly on insects or where they are seen.

Spray **POULIN'S C plus C INSECTICIDE** at the rate of 10 seconds to 20 seconds per 100 square metres of floor space, coating the surface with a dew-like mist.

Thoroughly treat harborage and breeding areas, cracks, crevices, undersides of work tables, behind sinks and escutcheon plates, walls, window and door frames, elevator shafts and pits, behind and under equipment, laundry carts, garbage areas, warm dark moist areas, void spaces, shelves. Repeat as necessary.

Manufactured by: **N.L. POULIN LTD.** Net Contents:
 24 Marlin Place
 Winnipeg, Manitoba Litres

Ingestion: Give 2 or 3 glasses of milk or water. Do not induce vomiting. Keep warm and at rest. Obtain immediate medical attention.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Have trained personnel give oxygen if breathing is difficult. Keep warm and at rest. Obtain immediate medical attention.

FIRE AND EXPLOSION HAZARD DATA

Extinguishing Agents: Carbon Dioxide, Dry Chemical (Preferred), Foam, Water Fog.

Flash Point (°C): 63.5

Lower Explosive Limit (LEL): 1%

Autoignition Temp (°C): Above 293.5

Upper Explosive Limit (UEL): 6%

Moderately flammable. Move material away from fire if without risk. For large fires or fires in enclosed areas use self-contained breathing apparatus. Use water spray to cool containers.

Caution: May explode if heated.

SPILL OR LEAK CLEANUP AND DISPOSAL

Eliminate sources of ignition. Ventilate area. Wear protective clothing and equipment (see Special Protection). In addition for large quantities: Notify safety personnel. Evacuate area. Prevent entry into sewers or water supply. Absorb spill with lime. Collect and then add liquid bleach. Wash site with detergent. Dispose in an approved chemical landfill.

REACTIVITY DATA

Incompatible with: Alkalies, Oxidizing Materials.

Precautions: Avoid sparks, open flames, extreme temperatures and other ignition sources. Store in a cool, dry, well ventilated area away from food, feed, fertilizers, or water supply.

PHYSICAL DATA

Boiling Point (°C @ 760 mm): Initial 195.5, Dry 293.5

Melting Point (°C): NDA

Specific Gravity: 0.773

% Volatiles By Volume: High

Vapour Density: Low

Vapour Pressure (mm Hg): 0.1 (at 38°C)

Solubility in Water (%wt/wt): Negligible

Appearance, Odour: Water white liquid, practically no odour.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which Poulin's assumes legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made. Read the product label before using.

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PROLIANT

PAGE 01



SODIUM CITRATE

M.S.D.S.

MODIFIED SODIUM CITRATE 100

Material Safety Data Sheet

Date Prepared:

12/07/01 Supersedes Date:

4/29/96

1. PRODUCT AND COMPANY DESCRIPTION

RHODIA INC.
RHODIA FOOD INGREDIENTS
CN 7500
Prospect Plains Road
Cranbury NJ 08512-7500

Emergency Phone Numbers:
FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
CONTACT: CHEMTREC (800-424-9300 within the United States or
703-527-3887 for international collect calls) or Rhodia CAERS
(Communication and Emergency Response System) at 800-916-3232.

For Product Information:
(800) 343-8324

Chemical Name or Synonym:
SODIUM TRIPOLYPHOSPHATE AND SODIUM CITRATE

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg. Number	CSHA Hazard	Percentage
SODIUM TRIPOLYPHOSPHATE	7758-19-4	H	
SODIUM CITRATE DIHYDRATE	5132-04-3	N	

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:
white crystalline solid, odorless.

Warning Statements:
CAUTION! MAY CAUSE SKIN AND EYE IRRITATION.

B. POTENTIAL HEALTH EFFECTS:

**MODIFIED SODIUM CITRATE 100**

Material Safety Data Sheet

Date Prepared:

12/07/01 Supersedes Date: 4/29/96

3. HAZARDS IDENTIFICATION (Continued)

Acute Eye:

Slightly irritating. Can cause redness, irritation.

Acute Skin:

May cause irritation, on prolonged contact.

Acute Inhalation:

Low acute inhalation toxicity. Dusts may cause upper respiratory tract irritation.

Acute Ingestion:

Low acute oral toxicity. Ingestion of large quantities may cause decreased heart rate, decreased blood pressure, nausea, vomiting, diarrhea.

Chronic Effects:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:**Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

Skin Exposure:

In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

Ingestion:

If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce

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PROLANT

PAGE 03

Rhodia**MODIFIED SODIUM CITRATE 100****Material Safety Data Sheet****Date Prepared:****12/07/01 Supersedes Date: 4/29/96**

4. FIRST AID MEASURES (Continued)

vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

NOTES TO PHYSICIAN:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:
Not Applicable

Extinguishing Media:
Recommended: dry chemical, foam, water, carbon dioxide.

Special Fire Fighting Procedures:
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards:
Under fire conditions, toxic, corrosive fumes are emitted.

Hazardous Decomposition Materials (Under Fire Conditions):
oxides of sodium
oxides of phosphorus

End of Page 3**Continued on Next Page**

**MODIFIED SODIUM CITRATE 100****Material Safety Data Sheet****Date Prepared:****12/07/01 Supersedes Date: 4/29/96**

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:

Ventilate closed spaces before entering. Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Containment of Spill:

Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:

Shovel up into an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER. Collect washings for disposal. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.

Environmental and Regulatory Reporting:

Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in a appropriate container for disposal. Prevent material from entering public sewer system or any waterways.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:

Not Available

Handling:

Avoid direct or prolonged contact with skin and eyes. Keep containers closed when not being used. Avoid breathing dusts. Do not ingest.

Storage:

Store in tightly closed containers. Store in an area that is sanitary, dry, cool.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

End of Page 4

Continued on Next Page



MODIFIED SODIUM CITRATE 100

Material Safety Data Sheet Date Prepared: 12/07/01 Supersedes Date: 4/29/96

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:

PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION			
	Notes	TWA	STEL
OSHA		5 mg/cu m	

PARTICULATES NOT OTHERWISE REGULATED TOTAL DUST			
	Notes	TWA	STEL
OSHA		15 mg/cu m	

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI



MODIFIED SODIUM CITRATE 100

Material Safety Data Sheet Date Prepared: 12/07/01 Supersedes Date: 4/29/96

9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

pH:
9 to 10 at 1 wt/wt%.

Specific Gravity:
Not Available

Water Solubility:
soluble

Melting Point Range:
622 C (1152 F)

Boiling Point Range:
Not Available

Vapor Pressure:
Not Available

Vapor Density:
Not Available

10. STABILITY AND REACTIVITY

Chemical Stability:
This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:
heat

Materials/Chemicals To Be Avoided:
strong acids
strong oxidizing agents

The Following Hazardous Decomposition Products Might Be Expected:
Decomposition Type: Thermal
oxides of sodium
oxides of phosphorus

Hazardous Polymerization Will Not Occur.
Avoid The Following To Inhibit Hazardous Polymerization:

End of Page 7

Continued on Next Page

**MODIFIED SODIUM CITRATE 100****Material Safety Data Sheet****Date Prepared:****12/07/01 Supersedes Data:****4/29/96**

10. STABILITY AND REACTIVITY (Continued)

not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

The following data are for the specified ingredients.

Toxicological Information and Interpretation

eye - eye irritation, rabbit.

Mildly irritating. Unwashed. Data for sodium tripolyphosphate.

eye - eye irritation, rabbit.

Non-irritating. Washed. Data for sodium tripolyphosphate.

Acute Skin Irritation:

The following data is for the specified ingredient.

Toxicological Information and Interpretation

skin - skin irritation, rabbit.

Non-irritating. Data for sodium tripolyphosphate.

Acute Dermal Toxicity:

The following data is for the specified ingredients.

Toxicological Information and Interpretation

LD50 - lethal dose 50% of test species, > 4640 mg/kg, rabbit.

Data for sodium tripolyphosphate.

Acute Respiratory Irritation:

No test data found for product.

Acute Inhalation Toxicity:

No test data found for product.

Acute Oral Toxicity:

The following data is for the specified ingredients.

Toxicological Information and Interpretation

LD50 - lethal dose 50% of test species, 3900 mg/kg, rat.

Data for sodium tripolyphosphate.

Chronic Toxicity:**End of Page****Continued on Next Page**

**MODIFIED SODIUM CITRATE 100****Material Safety Data Sheet****Date Prepared:****12/07/01****Supersedes Date: 4/29/96**

11. TOXICOLOGICAL INFORMATION (Continued)

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

No additional test data found for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:
No data found for product.

Chemical Fate Information:
No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal:
DO NOT REUSE CONTAINERS.
Rinse containers before disposal.

EPA Hazardous Waste - NO

14. TRANSPORTATION INFORMATION

End of Page 5**Continued on Next Page**

**MODIFIED SODIUM CITRATE 100****Material Safety Data Sheet****Date Prepared:****12/07/01 Supersedes Date:****4/29/96****14. TRANSPORTATION INFORMATION (Continued)**

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation

Shipping Name:

NOT REGULATED

15. REGULATORY INFORMATION**Inventory Status**

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	Y
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KHCL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS**Inventory Issues:**

All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard	- NO
Reactive Hazard	- NO
Release of Pressure	- NO
Acute Health Hazard	- NO
Chronic Health Hazard	- NO

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Continued on Next Page



MODIFIED SODIUM CITRATE 100

Material Safety Data Sheet Date Prepared: 12/07/01 Supersedes Date: 4/29/96

15. REGULATORY INFORMATION (Continued)

SARA Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances	
Ingredient:	CERCLA/SARA EQ SARA EHS TPQ
SODIUM TRIPOLYPHOSPHATE	5000 lbs

OTHER FEDERAL REGULATIONS:

FDA Status:

This product meets the compositional requirements of:

- 21 CFR 182.1810 SODIUM TRIPOLYPHOSPHATE
- 21 CFR 182.1751 SODIUM CITRATE

STATE REGULATIONS:

This product does not contain any components that are regulated under California Proposition 65.

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NFPA(R):

- 1 Health Hazard Rating--Slight
- 0 Flammability Rating--Minimal
- 0 Instability Rating--Minimal

National Paint & Coating Hazardous Materials Identification System--HMIS(R):

- 1 Health Hazard Rating--Slight
- 0 Flammability Rating--Minimal
- 0 Reactivity Rating--Minimal

Reason for Revisions:

Change and/or addition made to Section 3, Section 11, Regulatory Review and Update.

Key Legend Information:

- ACGIH - American Conference of Governmental Industrial Hygienists
- OSHA - Occupational Safety and Health Administration
- TLV - Threshold Limit Value
- PEL - Permissible Exposure Limit
- TWA - Time Weighted Average
- STEL - Short Term Exposure Limit
- NTP - National Toxicology Program
- IARC - International Agency for Research on Cancer
- ND - Not determined

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MODIFIED SODIUM CITRATE 100

Material Safety Data Sheet

Date Prepared:

12/07/01 Supersedes Date:

4/29/96

16. OTHER INFORMATION (Continued)

RPI - Rhodia Established Exposure Limits

Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied, is made.



CHEMCO
 PRODUITS POUR LE TRAITEMENT DES EAUX
 WATER TREATMENT PRODUCTS

MATERIAL SAFETY DATA SHEET

SIMDUT CLASS				
SECTION I – PRODUCT INFORMATION				
Product Identification <i>CHEMFLOC AMX 61418</i>		CAS Registry Number <i>Not available</i>		
Chemical Identification <i>Anionic acrylamide polymer</i>		Synonyms <i>Anionic Polyacrylamide</i>		
Molecular Formula <i>Not available</i>		Molecular Weight (g) <i>Not available</i>		
Manufacturer Identification		Supplier Identification <i>CHEMCO inc.</i>		
Address		Address <i>185, de Rotterdam Street</i>		
City	Province	City <i>St-Augustin-de-Desmaures</i>	Province <i>Quebec</i>	
Zip Code	Emergency Phone No.	Zip Code <i>G3A 2K2</i>	Emergency Phone No. <i>Canotec (613) 996-6666</i>	
Product uses <i>Industrial and municipal applications (flocculant used for water treatment and for sludge dewatering)</i>				
SECTION II – HAZARDOUS INGREDIENTS				
Hazardous ingredients (Chemical Identification)	Concentration (% wt)	Number CAS or UN or NA	LD₅₀ (Species & Way)	LC₅₀ (Period & Species)
<i>No dangerous component according to SIMDUT regulation</i>				
<i>CHEMFLOC AMX 61418*</i>	<i>100</i>	<i>Not available</i>	<i>5000 mg/kg (rat, oral)</i>	<i>> 100 mg/L (96 hrs, fish)</i>
SECTION III – PHYSICALS AND CHEMICALS DATA				
Molecular Formula <i>Not available</i>	Molecular Weight (g) <i>Not available</i>	Physique State <i>Solid</i>	Appearance <i>Granular powder</i>	
Color <i>White</i>	Odor <i>Slightly or none</i>	Odor Detection Threshold (ppm) <i>Not available</i>		
Specific Gravity (g/mL) <i>0,75</i>	Melting Point (°C) <i>Not available</i>	Boiling Point (°C) <i>Not applicable</i>	Vapour Pressure (mm Hg) <i>Not applicable</i>	
Vapour Density (air = 1) <i>Not applicable</i>	Evaporation Rate <i>Not applicable</i>	Saturation Concentration (ppm) <i>Not applicable</i>		
Distribution Coefficient Water/Oil : <i>Not available</i>	pH (1% solution) <i>6 to 8</i>	Solubility in Water (20°C) <i>Soluble; limited by viscosity</i>	Particle Size (µm) <i>Not available</i>	

*: No ingredient of the product is considered as dangerous according to the regulation SIMDUT, but it has a LD₅₀ and a LC₅₀.

Product Identification <i>CHEMFLOC AMX 61418</i>		CAS Registry Number <i>Not available</i>	
SECTION IV – FIRE OR EXPLOSION HAZARD			
Flash point (°C) / Method <i>Not applicable</i>		Auto-ignition Temperature (°C) <i>Not available</i>	
Lower and Higher Limits of Flammability or Explosibility (% v/v) <i>Not available</i>			
Conditions of Flammability <i>Not available</i>			
Means of Extinction <i>Foam, dry powder or carbon dioxide</i>			
Special Fire-fighting Precautions <i>Use standard technique for chemicals fires. The product is slippery when is wet. If water is used, keep peoples and vehicles away from the affected area.</i>			
Hazardous Combustion Products <i>The combustion can produce nitrogen oxyde (NO_x), carbon oxydes, some hydrocarbon compound and/or ammonia. These products can be irritating and/or toxic.</i>			
EXPLOSIBILITY DATA			
Conditions of Explosibility <i>Dust may be explosive if mixed with air and in the presence of an ignition source. Avoid these circumstances.</i>			
Shock Sensitivity <i>Not applicable</i>		Electrostatics Discharges Sensitivity <i>Not applicable</i>	
SECTION V – REACTIVITY DATA			
Conditions of Chemical Instability <i>The product is stable</i>			
Products or Products Category of Incompatibility <i>High temperature and strong oxidants agents can degrade the polymer</i>			
Conditions of Reactivity <i>Reacts with the incompatibles</i>			
Hazardous decomposition products <i>No decomposition is foreseen under the normal conditions of storing</i>			
Polymerization <i>Not applicable</i>			
SECTION VI – TOXICOLOGICAL PROPERTIES			
Routes of Entry <input type="checkbox"/> Absorption by Skin <input checked="" type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion			
Effects of Acute Exposure <i>Slight irritation is possible with prolonged contact</i>			
Effects of Chronic Exposure <i>Not available</i>			
Exposure limits (mg/m³) <i>Not available</i>		Irritation and corrosive properties <i>Slightly</i>	
Sensitization <i>Not available</i>		Teratogenicity <i>None anticipated</i>	
Carcinogenicity <i>None anticipated</i>		Mutagenicity <i>None anticipated</i>	
Reproduction Toxicity Effects <i>None anticipated</i>		Toxic Synergistic products Identifications <i>None known</i>	

Product Identification <i>CHEMFLOC AMX 61418</i>		CAS Registry Number <i>Not available</i>
SECTION VII – PREVENTIVE MEASURES		
EQUIPMENTS OF PROTECTION TO BE USED		
Gloves <i>Chemical proof (neoprene recommended) (as needed)</i>	Eye Protection <i>Safety goggle and/or chemical face shield (as needed), do not wear contact lenses</i>	Respiratory Protection <i>Mask for dust approved by OSHA/NIOSH (as needed)</i>
Clothes <i>Wear appropriate protective clothing (as needed)</i>	Shoes <i>Shoes or resistant boots of security (as needed)</i>	Others <i>Work in a well ventilated place</i>
Special Engineering Controls <i>Eliminate the sources of ignition.</i>		
Procedures to Follow in Case of Leak or Spill <i>Sweep and have in an adequate packaging for the elimination. Avoid any forming of dust. Wear the required equipment of protection. Do not eliminate in the nature.</i>		
Waste Disposal <i>In accordance with federal, state and local regulations.</i>		
Handling Procedures and Equipment <i>Keep the packaging closed when the product is not used. Use only with an adequate ventilation. Avoid the contact with eyes, skin and clothes. The consumption of food and beverages in the working area should be forbidden. After the use of the product, always wash himself hands and face with some water and some soap before eating, drinking or smoking.</i>		
Storage Requirements <i>Hold packaging closed well in a fresh and well ventilated place. A risk of explosion is present if a mixture air-dust forms.</i>		
Special Shipping information <i>See information from regulation of Transport Dangerous Goods (TDG).</i>		
Regulation name and transport identification class <i>TDG (Canada) : Not regulated by the TDG. DOT (United-States) : Not regulated by the DOT.</i>		

Product Identification <i>CHEMFLOC AMX 61418</i>		CAS Registry Number <i>Not available</i>
SECTION VIII – FIRST AID MEASURES		
Skin Contact <i>Wash affected area thoroughly with running water for 15 to 20 minutes and remove contaminated clothing. If irritation persists, consult a physician. Wash contaminated clothing before reusing.</i>		
Eye Contact <i>Wash eyes under running water for 15 to 20 minutes, making sure eyes are held wide open. Do not use an eye ointment. Consult a physician.</i>		
Inhalation <i>Remove to fresh air immediately. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Seek medical attention, if necessary.</i>		
Ingestion <i>If the person is conscious, give 2 to 4 glass of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.</i>		
Special First aid Measures <i>Call a physician if it's necessary.</i>		
SECTION IX – PREPARATION INFORMATION OF THE MSDS		
Writer Identification <i>Mathieu Bouchard, M.Sc., Chemist</i>	Phone number <i>(418) 878-5422</i>	Last revision date <i>October 2005</i>

NOTICE : The information contained in this material safety data sheet is, at this moment, accurate and precise at the best of our knowledge. CHEMCO inc. is not responsible for the use of its products.



CHEMCO inc.
 PRODUITS POUR LE TRAITEMENT DES EAUX
 WATER TREATMENT PRODUCTS

MATERIAL SAFETY DATA SHEET

**SIMDUT
CLASS**



SECTION I – PRODUCT INFORMATION

Product Identification <i>CHEMFLOC FERRIC</i>		CAS Registry Number <i>10028-22-5</i>	
Chemical Identification <i>Ferric sulfate in solution</i>		Synonyms <i>Iron (III) sulfate, ferric persulfate</i>	
Molecular Formula <i>Fe₂(SO₄)₃</i>		Molecular Weight (g) <i>399,88</i>	
Manufacturer Identification <i>CHEMCO inc.</i>		Supplier Identification	
Address <i>185, de Rotterdam Street</i>		Address	
City <i>St-Augustin-de-Desmaures</i>	Province <i>Quebec</i>	City	Province
Zip Code <i>G3A 2K2</i>	Emergency Phone No. <i>Canutec (613) 996-6666</i>	Zip Code	Emergency Phone No.

Product uses

Industrial and municipal applications (Water treatment)

Maximum use for treatment of drinking water (NSF-060)

554 mg/L

SECTION II – HAZARDOUS INGREDIENTS

Hazardous ingredients (Chemical Identification)	Concentration (% wt)	Number CAS or UN or NA	LD ₅₀ (Species & Way)	LC ₅₀ (Period & Species)
<i>Ferric sulfate</i>	<i>30 to 60</i>	<i>10028-22-5</i>	<i>5000 mg/kg (rat, oral)</i>	<i>Not available</i>
<i>Sulfuric acid</i>	<i>0,1 to 1</i>	<i>7664-93-9</i>	<i>2140 mg/kg (rat, oral)</i>	<i>510 mg/m³ (2 hrs, rat)</i>

SECTION III – PHYSICALS AND CHEMICALS DATA

Molecular Formula <i>Fe₂(SO₄)₃</i>	Molecular Weight (g) <i>399,88</i>	Physique State <i>Liquid</i>	Appearance <i>Slightly viscous</i>
Color <i>Red/brown</i>	Odor <i>Slightly acidic</i>	Odor Detection Threshold (ppm) <i>Not available</i>	
Specific Gravity (g/mL) <i>1,47 to 1,55</i>	Melting Point (°C) <i>-40 to -35</i>	Boiling Point (°C) <i>105 to 110</i>	Vapour Pressure (mm Hg) <i>Negligible</i>
Vapour Density (air = 1) <i>Not available</i>	Evaporation Rate <i>Not applicable</i>	Saturation Concentration (ppm) <i>Not applicable</i>	
Distribution Coefficient Water/Oil : <i>Not available</i>	pH (concentrated solution) <i>< 1</i>	Solubility in Water (20°C) <i>In all proportions</i>	Particle Size (µm) <i>Not applicable</i>

Product Identification <i>CHEMFLOC FERRIC</i>		CAS Registry Number <i>10028-22-5</i>	
SECTION IV – FIRE OR EXPLOSION HAZARD			
Flash point (°C) / Method <i>Not applicable</i>		Auto-ignition Temperature (°C) <i>Not applicable</i>	
Lower and Higher Limits of Flammability or Explosibility (% v/v) <i>Not applicable</i>			
Conditions of Flammability <i>The product is nonflammable, but Sulfuric Acid could react with metals to produce hydrogen</i>			
Means of Extinction <i>Extinguish main fire with appropriate media</i>			
Special Fire-fighting Precautions <i>The surfaces of containers exposed to the fire must to be cooled with water</i>			
Hazardous Combustion Products <i>Oxides of Sulfur</i>			
EXPLOSIBILITY DATA			
Conditions of Explosibility <i>Not applicable</i>			
Shock Sensitivity <i>Not applicable</i>		Electrostatics Discharges Sensitivity <i>Not applicable</i>	
SECTION V – REACTIVITY DATA			
Conditions of Chemical Instability <i>Ferric sulfate solution are hydrolysed slowly and are sensible at light</i>			
Products or Products Category of Incompatibility <i>The product corrodes aluminium, copper, copper alloy, soft steel and galvanized steel</i>			
Conditions of Reactivity <i>Not applicable</i>			
Hazardous decomposition products <i>Thermal decomposition (>600°C) produces corrosive and/or toxic fumes of sulfur oxides</i>			
Polymerization <i>Not applicable</i>			
SECTION VI – TOXICOLOGICAL PROPERTIES			
Routes of Entry <input type="checkbox"/> Absorption by Skin <input checked="" type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion			
Effects of Acute Exposure <i>Contact will cause irritations on affected surfaces</i>			
Effects of Chronic Exposure <i>Not available</i>			
Exposure limits (mg/m³) <i>15 min. : Not available 8h : 1</i>		Irritation and corrosive properties <i>Moderate</i>	
Sensitization <i>Not available</i>		Teratogenicity <i>None anticipated</i>	
Carcinogenicity <i>None anticipated</i>		Mutagenicity <i>None anticipated</i>	
Reproduction Toxicity Effects <i>None anticipated</i>		Toxic Synergistic products Identifications <i>None known</i>	

Product Identification <i>CHEMFLOC FERRIC</i>		CAS Registry Number <i>10028-22-5</i>
SECTION VII – PREVENTIVE MEASURES		
EQUIPMENTS OF PROTECTION TO BE USED		
Gloves <i>Chemical proof (neoprene recommended) (as needed)</i>	Eye Protection <i>Safety goggle and/or chemical face shield (as needed), do not wear contact lenses</i>	Respiratory Protection <i>Mask with acid mist cartridges approved by OSHA/NIOSH (as needed)</i>
Clothes <i>Wear protective work clothing in rubber resistant to acid (as needed)</i>	Shoes <i>Wear chemical resistant shoes or boots with steel reinforced shoes (as needed)</i>	Others <i>For cleaning containers use a self- contained breathing apparatus</i>
Special Engineering Controls <i>Use tools and equipment resistant to corrosion.</i>		
Procedures to Follow in Case of Leak or Spill <i>In case of a spill, the solution must be contained. Spill must not go in sewer system. Prevent authorities. Neutralize the solution with sodium bicarbonate, this will generate carbon dioxide gas (CO₂). An additional ventilation may be necessary. Recover with an absorbent or use a liquid vacuum cleaner.</i>		
Waste Disposal <i>In accordance with federal, state and local regulations.</i>		
Handling Procedures and Equipment <i>Keep container closed when not in used. Avoid contact with skin. Consumption of food and beverages should be avoided in work area where product is being used. After handling product, always wash hands and face thoroughly with soap and water before eating, drinking or smoking.</i>		
Storage Requirements <i>The product corrodes iron, copper, aluminium and stain. The ferric sulfate solutions must be stored in a fiberglass, PVC or stainless steel (304, 316) container and keep away from light, if it's possible.</i>		
Special Shipping information <i>See information from regulation of Transport Dangerous Goods (TDG).</i>		
Regulation name and transport identification class <i>TDG (Canada) : Corrosive liquid, N.O.S. (ferric sulfate); UN 1760, Class 8, Packing Group III DOT (United-States) : Corrosive liquid, N.O.S. (ferric sulfate); UN 1760, Class 8, Packing Group III</i>		

Product Identification <i>CHEMFLOC FERRIC</i>		CAS Registry Number <i>10028-22-5</i>
SECTION VIII – FIRST AID MEASURES		
Skin Contact <i>Wash affected area thoroughly with running water for 15 to 20 minutes and remove contaminated clothing. If irritation persists, consult a physician. Wash contaminated clothing before reusing.</i>		
Eye Contact <i>Wash eyes under running water for 15 to 20 minutes, making sure eyes are held wide open. Do not use an eye ointment. Consult a physician.</i>		
Inhalation <i>Remove to fresh air immediately. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Seek medical attention, if necessary.</i>		
Ingestion <i>If the person is conscious, give 2 to 4 glass of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.</i>		
Special First aid Measures <i>Call a physician if it's necessary.</i>		
SECTION IX – PREPARATION INFORMATION OF THE MSDS		
Writer Identification <i>Mathieu Bouchard, M.Sc., Chemist</i>	Phone number <i>(418) 878-5422</i>	Last revision date <i>October 2005</i>

NOTICE : The information contained in this material safety data sheet is, at this moment, accurate and precise at the best of our knowledge. CHEMCO inc. is not responsible for the use of its products.

Material Safety Data Sheet

Rec'd May 8/06

Product Name CHEM FRESH (LIQUID DEODORIZER)	Code J-467	Date Completed 23-Feb-06
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WHMIS Classification B3; D2B
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TDG Classification Not Regulated
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HAZARDOUS INGREDIENTS	%WT/WT	CAS NO.	TOXICITY DATA (LD50 & LC50)
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Isopropyl Alcohol	7-13	67-63-0	ACGIH TLV - 400 ppm LD50 Oral (rat) 5840 mg/kg Lethal Human Dose = 250 ml
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Alkyl, dimethyl benzyl ammonium chloride	.5 - 1.5	68424-85-1	LD50 Oral (rat) 4000 mg/Kg
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PHYSICAL DATA FOR PRODUCT

Physical State Liquid	Vapour Pressure N/A		Vapour Density N/A
pH 9.3 (Straight - 1% Solution - 7.1)		Evaporation Rate N/A	
Boiling Point (C) N/A	Sp. Gravity 0.987	Freezing Point (C) N/A	Solubility in Water 100%

Appearance and Odour
 Pale colored liquid with fresh deodorizing odour.

FIRE AND EXPLOSION DATA FOR PRODUCT**Fire Extinguishing Substances (√)**

Water fog ✓ CO2
 ✓ Foam ✓ Dry Chem

Other

Detail: N/A

Reactivity Data For Product**INCOMPATIBILITY (√)**

Acid Base Water Oxidizing Material

Other

Detail:
N/A**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide.

Chemical Stability

Stable.

Hazardous Combustion Products

Will produce carbon oxides.

Special Fire Fighting Procedures

Do not use direct water stream. Wear self contained breathing equipment.

Flammable Limits in air, % by vol. Non-Flammable:

Upper	N/A	Lower	N/A	Flash Point (Test Method)	38C
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HEALTH HAZARD INFORMATION FOR PRODUCT**Emergency and First Aid Procedures**

Inhalation: Move to fresh air.

Ingestion: Drink large quantities of milk or water. Do not induce vomiting. Get medical attention.

Eyes: Rinse with water for 15 minutes. Get medical attention.

Skin: Wash off with warm water.

EFFECTS OF OVEREXPOSURE (ACUTE AND CHRONIC)

Inhalation : May cause upper respiratory tract irritation, dizziness.

Ingestion : May cause nausea, vomiting and diarrhea.

Eyes : May cause eye irritation.

Skin : May cause irritation if prolonged contact occurs.

PREVENTIVE MEASURES

Spillage For larger spills, contain and pick-up. For small spills, wash area with warm water.

Waste Disposal Method Dispose in accordance with federal, provincial and local regulations.

Handling & Storage Requirements Store in cool, well ventilated area away from strong oxidizers. Keep container closed when not in use.

Ventilation General ventilation is sufficient.

Respiratory Protection Not normally necessary.

Eye Protection Not normally necessary.

Other Protection Rubber gloves should be worn to prevent prolonged contact with skin.



GE Betz

GE Betz Canada, Inc.
3451 Erindale Station Road
Mississauga, Ontario L5C 2S9
Business telephone: (905) 279-2222

Material Safety Data Sheet

Issue Date: 03-FEB-2005

EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940

1 PRODUCT IDENTIFICATION

PRODUCT NAME:

CORTROL IS3010

PRODUCT APPLICATION AREA:

POWDERED DISSOLVED OXYGEN SCAVENGER.

2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
7757-83-7	SODIUM SULFITE Severe irritant (eyes); sensitizer (skin and respiratory) ORAL LD50-MOUSE: 820 MG/KG DERMAL LD50: NO DATA. INHHL. LC50: NO DATA.	60-100

No component is considered to be a carcinogen by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or under WHMIS.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause moderate irritation to the skin. Potential skin sensititizer. May cause dermatitis. Severe irritant to the eyes, possibly corrosive. Dusts or mists are irritating to mucous membranes. Repeated exposure may result in respiratory sensitization.

Odor: Slight; Appearance: Gray To Brown, Powder

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause moderate irritation to the skin. Potential skin sensititizer. May cause dermatitis.

ACUTE EYE EFFECTS:

Severe irritant to the eyes, possibly corrosive.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure; Dusts or mists are irritating to mucous membranes. Repeated exposure may result in respiratory sensitization.

INGESTION EFFECTS:

May cause gastrointestinal irritation. Very large doses may cause diarrhea, depression, colic and death. May also cause severe allergic reactions in sensitive individuals.

TARGET ORGANS:

Prolonged or repeated exposures may cause CNS depression, primary irritant dermatitis, skin sensitization, and/or allergic respiratory reactions.

MEDICAL CONDITIONS AGGRAVATED:

Asthma, allergies, skin disorders, and chronic respiratory disease.

SYMPTOMS OF EXPOSURE:

Inhalation may cause eye, nose, throat and lung irritation and possible respiratory sensitization or asthma. Skin contact may cause moderate irritation to severe burns and sensitization.

4 FIRST AID MEASURES

SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

EYE CONTACT:

URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

NOTES TO PHYSICIANS:

No special instructions

5 FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

> 200F > 93C P-M(CC)

6 ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

The waste characteristics of the absorbed material, or any contaminated soil, should be determined in accordance with provincial regulations. Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement or discharged under provincial regulations. Incinerate or land dispose in an approved landfill.

7 HANDLING & STORAGE

HANDLING:

Clean spill immediately. Wash contaminated skin promptly.

STORAGE:

Keep containers closed when not in use. Store away from acids and oxidizers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Consult local authorities for acceptable provincial values.

CHEMICAL NAME

SODIUM SULFITE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:

adequate ventilation

RESPIRATORY PROTECTION:

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

SKIN PROTECTION:

neoprene gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

airtight chemical goggles

9 PHYSICAL & CHEMICAL PROPERTIES

Density	53.000 lb/cu.	Vapor Pressure (mmHG)	< 1.0
Freeze Point (F)	NA	Vapor Density (air=1)	< 1.00
Freeze Point (C)	NA		
Viscosity(cps 70F,21C)	NA	% Solubility (water)	15.0

Odor	Slight
Appearance	Gray To Brown
Physical State	Powder
Flash Point	P-M(CC) > 200F > 93C
pH 5% Sol. (approx.)	10.0
Evaporation Rate (Ether=1)	< 1.00

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY

STABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"E"

11 TOXICOLOGICAL INFORMATION

Oral LD50 MOUSE: 820 mg/kg
NOTE - Rabbit Oral LD50: 2,825 mg/kg
Dermal LD50 RABBIT: >1,000 mg/kg
NOTE - Estimated value

12 ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 1025; No Effect Level= 550 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 4710; No Effect Level= 1785 mg/L

BIODEGRADATION

BOD-28 (mg/g): 6
BOD-5 (mg/g): 3
COD (mg/g): 174
TOC (mg/g): 17

13 DISPOSAL CONSIDERATIONS

Incinerate or bury in approved landfill. Please be advised that there may be additional local or provincial requirements relating to the disposal of waste. Consult provincial and local regulations regarding the proper disposal of this material.

14 TRANSPORT INFORMATION

Transportation of Dangerous Goods:
Proper Shipping Name: Not Regulated

15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

CEPA:

All components of this product comply with substance notification requirements under CEPA.

WHMIS CLASSIFICATION:

D2A D2B

FOOD AND DRUG ADMINISTRATION:

ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.

16 OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	16-APR-1997		** NEW **
	12-MAY-1997		16-APR-1997
	23-SEP-1999	2,3,4,8,15	12-MAY-1997
	18-OCT-2002		23-SEP-1999
	03-FEB-2005	15	18-OCT-2002



GE Betz

GE Betz Canada, Inc.
3451 Erindale Station Road
Mississauga, Ontario L5C 2S9
Business telephone: (905) 279-2222

Material Safety Data Sheet

Issue Date: 23-APR-2004

EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940

1 PRODUCT IDENTIFICATION

PRODUCT NAME:

CONTINUUM AEC3136

PRODUCT APPLICATION AREA:

WATER-BASED CORROSION INHIBITOR/DEPOSIT CONTROL AGENT.

2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
40372-66-5	1,2,4-BUTANETRICARBOXYLIC ACID, 2-PHOSPHONO-, SODIUM SALT Irritant (eyes) ORAL LD50: NO DATA. DERMAL LD50: NO DATA. INHL. LC50: NO DATA.	10-30
202420-04-0	CHLOROTOLYLTRIAZOLE SODIUM SALT Potential irritant ORAL LD50: NO DATA. DERMAL LD50: NO DATA. INHL. LC50: NO DATA.	1-5
1310-73-2	SODIUM HYDROXIDE (CAUSTIC SODA) Corrosive; toxic (by ingestion) ORAL LD50-RAT: 140 MG/KG DERMAL LD50-RABBIT: 1,350 MG/KG INHL. LC50: NO DATA.	1-5

No component is considered to be a carcinogen by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or under WHMIS.

3 HAZARDS IDENTIFICATION

>

EMERGENCY OVERVIEW

May cause slight irritation to the skin. Severe irritant to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

Odor: Slight; Appearance: Amber To Brown, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:

Severe irritant to the eyes.

ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:

May cause gastrointestinal irritation.

TARGET ORGANS:

Prolonged or repeated exposures may cause primary irritant dermatitis.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

4 FIRST AID MEASURES

>

SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

NOTES TO PHYSICIANS:

No special instructions

5 FIRE FIGHTING MEASURES

>

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

> 200F > 93C P-M(CC)

6 ACCIDENTAL RELEASE MEASURES

>

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

The waste characteristics of the absorbed material, or any contaminated soil, should be determined in accordance with provincial regulations. Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement or discharged under provincial regulations. Incinerate or land dispose in an approved landfill.

7 HANDLING & STORAGE

>

HANDLING:

Alkaline. Do not mix with acidic material.

STORAGE:

Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

>

EXPOSURE LIMITS

Consult local authorities for acceptable provincial values.

CHEMICAL NAME

1,2,4-BUTANETRICARBOXYLIC ACID, 2-PHOSPHONO-, SODIUM SALT
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

CHLOROPOLYLTRIAZOLE SODIUM SALT

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

SODIUM HYDROXIDE (CAUSTIC SODA)

PEL (OSHA): 2 MG/M3

TLV (ACGIH): 2 MG/M3 (CEILING)

ENGINEERING CONTROLS:

adequate ventilation

RESPIRATORY PROTECTION:

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

SKIN PROTECTION:

neoprene gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles

9 PHYSICAL & CHEMICAL PROPERTIES

>

Specific Grav. (70F,21C)	1.276	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	3	Vapor Density (air=1)	> 1.00
Freeze Point (C)	-16		
Viscosity (cps 70F,21C)	50	% Solubility (water)	100.0

Odor	Slight
Appearance	Amber To Brown
Physical State	Liquid
Flash Point	P-M(CC) > 200F > 93C
pH As Is (approx.)	13.2
Evaporation Rate (Ether=1)	> 1.00

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY

>

STABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"B"

11 TOXICOLOGICAL INFORMATION

>

Oral LD50 RAT: >2,000 mg/kg
NOTE - Estimated value
Dermal LD50 RABBIT: >2,000 mg/kg
NOTE - Estimated value

12 ECOLOGICAL INFORMATION

>

AQUATIC TOXICOLOGY

Ceriodaphnia 48 Hour Static Renewal Bioassay (pH adjusted)
LC50= 1544; No Effect Level= 845 mg/L
Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)
0% Mortality= 2000 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 297; 10% Mortality= 99 mg/L

BIODEGRADATION

BOD-28 (mg/g): 13
BOD-5 (mg/g): 7
COD (mg/g): 219
TOC (mg/g): 79

13 DISPOSAL CONSIDERATIONS

>

Incinerate or bury in approved landfill. Please be advised that there may be additional local or provincial requirements relating to the disposal of waste. Consult provincial and local regulations regarding the proper disposal of this material.

14 TRANSPORT INFORMATION

>

Transportation of Dangerous Goods:

Proper Shipping Name: Corrosive Liquid, Basic, Inorganic, n.o.s.
(Sodium Hydroxide Solution)
PIN: UN3266; Classification: 8; Packing Group: III

15 REGULATORY INFORMATION

>

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

CEPA:

All components of this product comply with substance notification requirements under CEPA.

WHMIS CLASSIFICATION:

D2B E

16 OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	ALK	pH above 12.0
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	15-OCT-1998		** NEW **
	01-APR-1999	;EDIT:9	15-OCT-1998
	12-JUN-2000	4	01-APR-1999
	09-MAY-2001	2,8	12-JUN-2000
	23-APR-2004	16	09-MAY-2001



GE Betz Canada, Inc.
3451 Erindale Station Road
Mississauga, Ontario L5C 2S9
Business telephone: (905) 279-2222

Material Safety Data Sheet

Issue Date: 07-MAR-2005

EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940

1 PRODUCT IDENTIFICATION

REAGENT NAME:

CONDUCTIVITY STD. SOL. 4,000 UMHOS @ 25

REAGENT CODE:

L1919

REAGENT APPLICATION AREA:

FIELD TEST REAGENT

2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Product contains no hazardous ingredients reportable under WHMIS regulation

No component is considered to be a carcinogen by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or under WHMIS.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Non-hazardous to skin. May cause slight irritation to the eyes.
Mists/aerosols may cause irritation to upper respiratory tract.

Odor: None; Appearance: Colorless, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Non-hazardous to skin.

ACUTE EYE EFFECTS:

May cause slight irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:

No adverse effects expected. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, diarrhea and weakness may occur.

TARGET ORGANS:

No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

May cause eye, skin, and/or respiratory tract irritation.

4 FIRST AID MEASURES

SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists after flushing.

INHALATION:

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. No treatment required- no hazard.

NOTES TO PHYSICIANS:

No special instructions

5 FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

> 200F > 93C SETA(CC)

6 ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

The waste characteristics of the absorbed material, or any contaminated soil, should be determined in accordance with provincial regulations. Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement or discharged under provincial regulations. Incinerate or land dispose in an approved landfill.

7 HANDLING & STORAGE**HANDLING:**

This product is non-hazardous.

STORAGE:

Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

Consult local authorities for acceptable provincial values.

Product contains no hazardous ingredients reportable under WHMIS regulation

ENGINEERING CONTROLS:

adequate ventilation

RESPIRATORY PROTECTION:

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

SKIN PROTECTION:

rubber gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles

9 PHYSICAL & CHEMICAL PROPERTIES

Specific Grav. (70F, 21C)	0.997	Vapor Pressure (mmHG)	ND
Freeze Point (F)	ND	Vapor Density (air=1)	ND
Freeze Point (C)	ND		
Viscosity(cps 70F, 21C)	ND	% Solubility (water)	ND
Odor		None	
Appearance		Colorless	
Physical State		Liquid	
Flash Point	SETA(CC)	> 200F > 93C	
pH As Is (approx.)		6.1	
Evaporation Rate (Ether=1)		< 1.00	

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY

STABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with strong oxides.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"A"

11 TOXICOLOGICAL INFORMATION

Oral LD50 RAT: >2,000 mg/kg

NOTE - Estimated value

Dermal LD50 RABBIT: >2,000 mg/kg

NOTE - Estimated value

12 ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

No Data Available.

BIODEGRADATION

No Data Available.

13 DISPOSAL CONSIDERATIONS

Incinerate or bury in approved landfill. Please be advised that there may be additional local or provincial requirements relating to the disposal of waste. Consult provincial and local regulations regarding the proper disposal of this material.

14 TRANSPORT INFORMATION

Transportation of Dangerous Goods:

Proper Shipping Name: Not Regulated

15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

CEPA:

All components of this product comply with substance notification requirements under CEPA.

WHMIS CLASSIFICATION:

NOT REGULATED

16 OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	0	Minimal Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	03-MAY-1996	REVISED FORMAT	** NEW **
	28-APR-1999		03-MAY-1996
	03-APR-2002	4	28-APR-1999
	07-MAR-2005	16	03-APR-2002



GE Betz

GE Betz Canada, Inc.
3451 Erindale Station Road
Mississauga, Ontario L5C 2S9
Business telephone: (905) 279-2222

Material Safety Data Sheet

Issue Date: 07-APR-2006

EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940

1 PRODUCT IDENTIFICATION

REAGENT NAME:

CATALYZED MOLYBDATE REAGENT

REAGENT CODE:

L6131

REAGENT APPLICATION AREA:

FIELD TEST REAGENT

2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
7697-37-2	NITRIC ACID Oxidizer; corrosive; pulmonary damage; dental erosion ORAL LD50-UNKNOWN SPECIES: 50-500 MG/KG DERMAL LD50: NO DATA. INHL. LC50-RAT: 2,500 PPM/HR	30-60

No component is considered to be a carcinogen by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or under WHMIS.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Corrosive to skin. Corrosive to the eyes. Vapors, gases, mists

and/or aerosols cause irritation to the upper respiratory tract.

Odor: None; Appearance: Colorless, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; Corrosive to skin.

ACUTE EYE EFFECTS:

Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Vapors, gases, mists and/or aerosols cause irritation to the upper respiratory tract.

INGESTION EFFECTS:

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:

Prolonged or repeated exposures may cause tissue necrosis and/or toxicity to the lung.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

Skin and eye contact causes severe burns. Vapors/mists/aerosols cause eye and respiratory irritation, delayed pulmonary edema, and dental erosion.

4 FIRST AID MEASURES

SKIN CONTACT:

URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE CONTACT:

URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

NOTES TO PHYSICIANS:

Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

5 FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

> 200F > 93C P-M(CC)

6 ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

The waste characteristics of the absorbed material, or any contaminated soil, should be determined in accordance with provincial regulations. Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement or discharged under provincial regulations. Incinerate or land dispose in an approved landfill.

7 HANDLING & STORAGE

HANDLING:

Contains an oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids. Do not allow to dry. Corrosive to skin and/or eyes. Do not breathe mist or vapor.

STORAGE:

Keep containers closed when not in use. Use approved containers only. Store in cool, well-vented area. Contact with metals may release flammable hydrogen gas.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Consult local authorities for acceptable provincial values.

CHEMICAL NAME

NITRIC ACID

PEL (OSHA): 5 MG/M3 (10MG/M3-STEL)

TLV (ACGIH): 5 MG/M3 (10MG/M3-STEL)

ENGINEERING CONTROLS:

Adequate ventilation to maintain air contaminants below exposure limits.

RESPIRATORY PROTECTION:

An air-supplying respirator (positive pressure full facepiece) may be needed for this product.

SKIN PROTECTION:

gauntlet-type neoprene gloves, chemical resistant apron-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles, face shield

9 PHYSICAL & CHEMICAL PROPERTIES

Specific Grav. (70F, 21C)	1.000	Vapor Pressure (mmHG)	ND
Freeze Point (F)	ND	Vapor Density (air=1)	ND
Freeze Point (C)	ND		
Viscosity(cps 70F, 21C)	ND	% Solubility (water)	100.0
Odor	None		
Appearance	Colorless		
Physical State	Liquid		
Flash Point	P-M(CC)	> 200F	> 93C
pH As Is (approx.)	1.0		
Evaporation Rate (Ether=1)	< 1.00		

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY**STABILITY:**

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with organics or alkaline materials.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"C"

11 TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	>2,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12 ECOLOGICAL INFORMATION**AQUATIC TOXICOLOGY**

No Data Available.

BIODEGRADATION

No Data Available.

13 DISPOSAL CONSIDERATIONS

Incinerate or bury in approved landfill. Please be advised that there may be additional local or provincial requirements relating to the disposal of waste. Consult provincial and local regulations regarding the proper disposal of this material.

14 TRANSPORT INFORMATION

Transportation of Dangerous Goods:

Proper Shipping Name: Corrosive Liquids, N.O.S.
(Nitric Acid)
PIN: UN1760; Classification: 8(9.2); Packing Group II

15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

CEPA:

All components of this product comply with substance notification requirements under CEPA.

WHMIS CLASSIFICATION:

D2B E

16 OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	3	Serious Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	D	Goggles, Face Shield, Gloves, Apron

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	30-DEC-1996		** NEW **
	02-JAN-1997	14	30-DEC-1996
	17-JAN-1997	14	02-JAN-1997
	17-JAN-2000	14	17-JAN-1997
	07-JAN-2003	4	17-JAN-2000
	05-MAY-2003	16	07-JAN-2003
	07-APR-2006	16	05-MAY-2003

Material Safety Data Sheet



CONQUEST

Section 1. Chemical product and company identification

Trade name : CONQUEST
Product use : Cleaning product
Supplier : Ecolab Food and Beverage
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 922277-01
Date of issue : 08-February-2006

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

Name	CAS number	% by weight
sodium hydroxide	1310-73-2	15 - 40
phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	29329-71-3	0.5 - 1.5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : DANGER!
CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion
Potential acute health effects
Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
See toxicological information (section 11)

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire-fighting measures

Auto-ignition temperature	: Not available.
Flash point	: > 100°C
Flammable limits	
Upper:	Not available.
Lower:	Not available.
Products of combustion	: Not available.
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire. Dyke liquid for later disposal. No specific hazard.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Risk of explosion of the product in the presence of mechanical impact:	Not available.
Risk of explosion of the product in the presence of static discharge:	Not available.

Section 6. Accidental release measures

Personal Precautions	: Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	: If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling	: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. Wash thoroughly after handling.
Storage	: Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between -15 and 50°C

Section 8. Exposure controls, personal protection

Engineering controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Provide eyewash and safety shower in area if contact or splash hazard exists.
<u>Personal protection</u>	
Eyes	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
Hands	: Use chemical-resistant, impervious gloves.
Skin	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.
Respiratory	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.
<u>Name</u>	<u>Exposure limits</u>
sodium hydroxide	ACGIH TLV (United States, 1/2004). CEIL: 2 mg/m ³

Section 9. Physical and chemical properties

Physical state	: Liquid. (Liquid.)
Colour	: Yellowish. (Light.)
Odour	: Faint odour.
pH	: 13.2 (100%)
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Specific gravity	: 1.351 (Water = 1)
Vapour pressure	: Not applicable.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
LogK _{ow}	: Not available.

Section 10. Stability and reactivity

Stability	: The product is stable.
Conditions of instability	: Not available.
Reactivity	: Extremely reactive or incompatible with acids. Reactive with metals. Slightly reactive to reactive with organic materials.
Incompatibility with various substances	: Not available.
Hazardous Decomposition Products	: Not available.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: Corrosive to the respiratory system.
Ingestion	: Harmful if swallowed. Causes burns to mouth, throat and stomach.
Irritancy of Product	: Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenic effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitization to Product	: No known significant effects or critical hazards.
Synergistic products (toxicologically)	: Not available.

Toxicity data

<u>Inгредиент name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
sodium hydroxide	LDLo	500 mg/kg	Oral	Rabbit

Target organs : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea.

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water, phosphates. Some metallic oxides.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
TDG Classification	UN1824	SODIUM HYDROXIDE SOLUTION	8	II	<p><u>Explosive Limit and Limited Quantity Index</u> 1</p> <p><u>Passenger Carrying Road or Rail Index</u> 1</p>

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

WHMIS : Class E: Corrosive material

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

Section 16. Other information

Date of issue : 08-February-2006.
Responsible name : Regulatory Affairs
Date of previous issue : No previous validation.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



GE Betz

GE Betz Canada, Inc.
3451 Erindale Station Road
Mississauga, Ontario L5C 2S9
Business telephone: (905) 279-2222

Material Safety Data Sheet

Issue Date: 21-APR-2005

EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940

1 PRODUCT IDENTIFICATION

REAGENT NAME:

DPD 2 TOTAL CHLORINE REAGENT FOR 25 ML

REAGENT CODE:

L2337

REAGENT APPLICATION AREA:

FIELD TEST REAGENT

2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
PROPRIETARY	ORGANIC SALT, TRADE SECRET Irritant ORAL LD50: NO DATA. DERMAL LD50: NO DATA. INHL. LC50: NO DATA.	40-70
7558-79-4	DISODIUM PHOSPHATE (SODIUM PHOSPHATE, DIBASIC) Irritant (eyes) ORAL LD50-RAT: 5,950 MG/KG DERMAL LD50: NO DATA. INHL. LC50: NO DATA.	15-40
7681-11-0	POTASSIUM IODIDE May be irritating (dusts) or corrosive (solutions) by all routes and cause allergic respiratory and skin reactions; potential thyroid toxin; repeated ingestion may cause iodism; reproductive toxin ORAL LD50: NO DATA. DERMAL LD50: NO DATA. INHL. LC50: NO DATA.	15-40

HAZARDOUS INGREDIENTS (continued):

PROPRIETARY DPD SALT 3-7
Moderately toxic (by ingestion); irritant (eyes and skin); potential sensitizer (skin)
ORAL LD50: NO DATA.
DERMAL LD50: NO DATA.
INHL. LC50: NO DATA.

No component is considered to be a carcinogen by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or under WHMIS.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause slight irritation to the skin. Potential skin sensitizer. May cause moderate irritation to the eyes. May cause irritation to mucous membranes. Repeated exposure may result in respiratory sensitization.

Odor: None; Appearance: White To Light Pink, Powder

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause slight irritation to the skin. Potential skin sensitizer.

ACUTE EYE EFFECTS:

May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure; May cause irritation to mucous membranes. Repeated exposure may result in respiratory sensitization.

INGESTION EFFECTS:

Iodide salts act principally as expectorants or diuretics with stomach pain. May cause allergic response. Repeated ingestion of iodides may cause iodism characterized by brassy taste in the mouth, cold symptoms and rash.

TARGET ORGANS:

Prolonged or repeated exposures may cause allergic reactions and/or toxicity to the reproductive system.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing skin disorders.

SYMPTOMS OF EXPOSURE:

Inhalation may cause eye, nose, throat and lung irritation and possible respiratory sensitization or asthma. Skin contact may cause moderate irritation to severe burns and sensitization.

4 FIRST AID MEASURES

SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

INHALATION:

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

NOTES TO PHYSICIANS:

No special instructions

5 FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

NA

6 ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

The waste characteristics of the absorbed material, or any contaminated soil, should be determined in accordance with provincial regulations. Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement or discharged under provincial regulations. Incinerate or land dispose in an approved landfill.

7 HANDLING & STORAGE

HANDLING:

Normal chemical handling.

STORAGE:

Keep containers closed when not in use. Keep dry.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Consult local authorities for acceptable provincial values.

CHEMICAL NAME

ORGANIC SALT, TRADE SECRET

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

DISODIUM PHOSPHATE (SODIUM PHOSPHATE, DIBASIC)

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

POTASSIUM IODIDE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

DPD SALT

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:

Adequate ventilation to maintain dust concentrations below the exposure limit of 10 mg/m³ (PEL/TLV) for nuisance dusts.

RESPIRATORY PROTECTION:

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

SKIN PROTECTION:

necoprene gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

airtight chemical goggles

9 PHYSICAL & CHEMICAL PROPERTIES

Density	NO DATA	Vapor Pressure (mmHG)	NA
Freeze Point (F)	NA	Vapor Density (air=1)	NA
Freeze Point (C)	NA		
Viscosity (cps 70F, 21C)	NA	% Solubility (water)	NA
Odor		None	
Appearance		White To Light Pink	
Physical State		Powder	
Flash Point	P-M(CC)	NA	
pH As Is (approx.)		6.5	
Evaporation Rate		NA	

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY

STABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"B"

11 TOXICOLOGICAL INFORMATION

Oral LD50 RAT: 5,850 mg/kg

Dermal LD50 RABBIT: >2,000 mg/kg

NOTE - Estimated value

Skin Irritation Score RABBIT: 0.21

NOTE - Very slight erythema; 100% reversible by day 3

12 ECOLOGICAL INFORMATION**AQUATIC TOXICOLOGY**

No Data Available.

BIODEGRADATION

No Data Available.

13 DISPOSAL CONSIDERATIONS

Incinerate or bury in approved landfill. Please be advised that there may be additional local or provincial requirements relating to the disposal of waste. Consult provincial and local regulations regarding the proper disposal of this material.

14 TRANSPORT INFORMATION**Transportation of Dangerous Goods:**

Proper Shipping Name: Not Regulated

15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

CEPA:

All components of this product comply with substance notification requirements under CEPA.

WHMIS CLASSIFICATION:

D2A D2B

16 OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard

(1) Protective Equipment B Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	03-MAY-1996	REVISED FORMAT	** NEW **
	25-JUN-1996	3,8	03-MAY-1996
	23-JUL-1996	15	25-JUN-1996
	11-AUG-1997	2,3	23-JUL-1996
	16-APR-1998	2,3	11-AUG-1997
	20-MAR-2001	2,3	16-APR-1998
	17-MAY-2002	4,16	20-MAR-2001
	21-APR-2005	16	17-MAY-2002



GE Betz Canada, Inc.
3451 Erindale Station Road
Mississauga, Ontario L5C 2S9
Business telephone: (905) 279-2222

Material Safety Data Sheet

Issue Date: 04-JUN-2004

EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940

1 PRODUCT IDENTIFICATION

REAGENT NAME:

DEIONIZED WATER

REAGENT CODE:

L243

REAGENT APPLICATION AREA:

FIELD TEST REAGENT

2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Product contains no hazardous ingredients reportable under WHMIS regulation

No component is considered to be a carcinogen by the U.S. National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or under WHMIS.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Non-hazardous to skin. Non-hazardous to eyes. Not expected to cause respiratory tract irritation.

Odor: None; Appearance: Colorless, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: This product is non-combustible

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Non-hazardous to skin.

ACUTE EYE EFFECTS:

Non-hazardous to eyes.

ACUTE RESPIRATORY EFFECTS:

Not expected to cause respiratory tract irritation.

INGESTION EFFECTS:

No evidence of adverse effects from available information.

TARGET ORGANS:

No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

Not applicable.

4 FIRST AID MEASURES

SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists after flushing.

INHALATION:

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. No treatment required- no hazard.

NOTES TO PHYSICIANS:

No special instructions

5 FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

This product is non-combustible

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

> 200F > 93C UNKNOWN

6 ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Non-hazardous: follow general good housekeeping procedures.

DISPOSAL INSTRUCTIONS:

Product or water containing this product may be sent to a sanitary sewer.

7 HANDLING & STORAGE

HANDLING:

This product is non-hazardous.

STORAGE:

Keep containers closed when not in use. Protect from freezing.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Consult local authorities for acceptable provincial values.

Product contains no hazardous ingredients reportable under WHMIS regulation

ENGINEERING CONTROLS:

adequate ventilation

RESPIRATORY PROTECTION:

Respirators should not be needed for this product.

SKIN PROTECTION:

Use of gloves made of rubber or synthetic material is optional. Wash off after each use. Replace as necessary.

EYE PROTECTION:

safety glasses

9 PHYSICAL & CHEMICAL PROPERTIES

Specific Grav. (70F, 21C)	0.948	Vapor Pressure (mmHG)	18.0
Freeze Point (F)	32	Vapor Density (air=1)	1.00
Freeze Point (C)	0		
Viscosity (cps 70F, 21C)	ND	% Solubility (water)	ND
Odor		None	
Appearance		Colorless	
Physical State		Liquid	
Flash Point	UNKNOWN	> 200F > 93C	
pH As Is (approx.)		7.0	
Evaporation Rate (Water=1)		< 1.00	

NA = not applicable ND = not determined

10 STABILITY & REACTIVITY