


SECTION I – PRODUCT IDENTIFICATION	
Identity:	MACHINE DISHWASH DETERGENT
Brands:	#234 MACHINE DISHWASHING DETERGENT
Manufacturer Name and Address:	Meterpak Inc., 1270 Fewster Drive, Mississauga, ON L4W 1A4 Canada Tel: (905) 624-3066
Chemical Class:	Mixture
Transportation Emergency (24 hour) Telephone Number – CHEMTREC: 1-800-424-9300 – U.S. and Canada; 1-703-527-3887 – for calls originating elsewhere	

SECTION II – HAZARDS IDENTIFICATION
Product is packed in water soluble pouches. Direct contact with powder unlikely under normal conditions. However, under upset or unusual conditions:
GHS Classification: For contents of pouch: Eye irritant – Category 2

WARNING! Causes serious eye irritation, harmful if swallowed.
Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)
Ingestion: May cause transient gastrointestinal irritation and or burns, abdominal pain, nausea.
Eye Contact: Contact may cause severe irritation.
Skin Contact: Contact may cause severe irritation.
Inhalation: Heavy exposure to dust may cause respiratory tract irritation.
Potential Environmental Effects: (See Section 12 for more information).

SECTION III – COMPOSITION AND INGREDIENTS			
<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>
Sodium Carbonate	Soda Ash	497-19-8	5-15%
Sodium Chloride	Salt	7647-14-5	15-30%
Sodium Dichloroisocyanurate Dihydrate	-	51580-86-0	1-5%
Silicic Acid, Disodium Salt	-	6834-92-0	5-15%
Tripoly Phosphate	-	7758-29-4	15-30%

SECTION IV – FIRST AID INFORMATION	
First Aid Procedures:	
Ingestion:	Dilute by drinking 1-2 glasses of water. Do NOT induce vomiting. Consult a physician immediately.
Eye Contact:	Flush eyes thoroughly with lukewarm water for 15 minutes. Consult a physician.
Skin Contact:	Rinse exposed area with water. If irritation persists, consult a physician.
Inhalation:	Remove to fresh air. If symptoms persist, consult a physician.

SECTION V – FIRE FIGHTING INFORMATION	
Flash Point (Method Used):	N/A
Flammable Properties:	
Upper Flammable Limit:	N/K
Lower Flammable Limit:	N/K
Explosive Limits:	UEL: N/A LEL: N/A
Auto-Ignition Temperature:	N/A
Hazardous Combustion Products:	N/K
Explosion Data (Sensitivity to Mechanical Impact):	N/K
Explosion Data (Sensitivity to Static Discharge):	N/K

SECTION V – FIRE FIGHTING INFORMATION (cont'd)**Extinguishing Media:**

Suitable: CO₂, water, or dry chemical

Unsuitable: None known

Protection of Firefighters:

Specific Hazards Arising from the Material: None known

Protective Equipment and Precautions for Firefighters: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially irritating or sensitizing fumes.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Minimize dust levels while collecting product (see "Inhalation" health effects). Prevent exposure to dust with NIOSH approved respirators with HEPA filters. Minimize prolonged skin contact by using gloves.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Dry product may be landfilled if permitted by local regulations. Discard empty container in trash. Wastewater containing product may be sewerred in compliance with all federal and state/provincial regulations, and local ordinances.

Methods for Containment: For dry product spills, collect material in an approved container while minimizing dust generation. Vacuum, as appropriate, remaining dust on floor.

Methods for Cleanup: Recycle or dispose of product, as necessary, in accordance with regulations. Flush small quantities down acceptable sanitary/process sewer. Wipe up all small spills with a damp cloth. Dispose of according to local regulations.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not handle with wet hands. Avoid breathing product dust. Wash before eating.

Precautions To Be Taken in Storage: Store in a cool, dry place. Keep product dry to maintain free-flowing granules.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Minimize dust.

Engineering Controls: Standard room ventilation.

Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal, consumer use. If dusting likely, wear chemical goggles.

Skin Protection: None required for normal, consumer use. If dusting likely wear rubber gloves.

Respiratory Protection: None required for normal, consumer use. If dusting likely wear an approved respirator.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**Appearance (color, physical form, shape):**

White powder

Odor: Mild

Physical State: Solid granules at 68°F (20°C)

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Boiling Point: N/A

Partition Coefficient (n-octanol/water): N/A

Flash Point (Method Used): N/A

Odor Threshold: N/A

Solubility in Water: Completely soluble at 68°F (20°C)

Decomposition Temperature: N/A

Evaporation Rate (nBuOAc=1): N/A

Melting/Freezing Point: N/A

pH (of a 1% solution): 10.5 – 11.5

Volatile Organic Compound (VOC): Not Applicable – Product not regulated for VOC Content at State or Federal level.

SECTION X – STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Open flame.

Incompatible Materials: Acids, strong oxidizers

Hazardous Decomposition Products: Oxides of sulfur, carbon dioxide, chlorine, nitrogen trichloride.

Possibility of Hazardous Reactions: No hazardous reactions known under normal use conditions.

SECTION XI – TOXICOLOGICAL INFORMATION

Product is sold in water-soluble pouches, direct contact is unlikely. However, under upset or unusual conditions:

Signs and Symptoms of Exposure:

Ingestion: May cause transient gastrointestinal irritation and or burns, abdominal pain, nausea.

Eye Contact: Contact may cause severe irritation.

Skin Contact: Contact may cause severe irritation.

Inhalation: Heavy exposure to dust may cause respiratory tract irritation.

Medical Conditions Generally Known to be Aggravated by Exposure: None known.

SECTION XI – TOXICOLOGICAL INFORMATION (cont'd)

Toxicity Of Components:

Sodium Carbonate	LD ₅₀ (Oral Rat) = 4090 mg/kg
Sodium Chloride	LD ₅₀ (Oral Rat) = 3000 mg/kg
Sodium Dichloroisocyanurate Dihydrate	LD ₅₀ (Oral Rat) = 1671 mg/kg
Silicic Acid, Disodium Salt	LD ₅₀ (Oral Rat) = 1280 mg/kg
Tripoly Phosphate	LD ₅₀ (Oral Rat) = 3120 mg/kg

Chronic Effects: Chronic inhalation may cause lung impairment.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic.

NTP: No

IARC: No

SECTION XII – ECOLOGICAL INFORMATION

Sodium Dichloroisocyanurate Dihydrate is not readily biodegradable but not expected to bioaccumulate.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

Normal Use: Consumer may discard empty container in trash, or recycle where facilities exist. Consumer produced solutions may be disposed of down the drain with running water. Normal product use may be disposed of in refuse or in sewer.

SECTION XIV – TRANSPORT INFORMATION

Ground Transport (US DOT): Not regulated

SECTION XV – REGULATORY INFORMATION

United States

All intentionally added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA 313/302/304chemicals: None

SARA 311/312 chemicals: Immediate health hazard.

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS #	Level	CERCLA RQ	State				
				IL	MA	NJ	PA	RI
Sodium Dichloroisocyanurate Dihydrate	51580-86-0	1-5%	N/A		X		X	

CANADA

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

SECTION XVI – OTHER INFORMATION

Hazard Rating:	Health:	3	4 = EXTREME
	Flammability:	0	3 = HIGH
	Reactivity:	1	2 = MODERATE
			1 = SLIGHT
			0 = NOT SIGNIFICANT

* N/A. – Not Applicable

*N/K – Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Meterpak Inc. to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of the material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Meterpak Inc. assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.