## MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD. 2310 - 80 AVENUE EDMONTON AB T6P 1N2 Phone: 780-440-1911 or 780-446-0177 In Case of Emergency Only: phone CANUTEC at (613) 996-6666

Product name:E-20 LIQUID MACHINE DISHWASH - NON CHLOR Code: J430Other name:Distributed by:Product use:machine dishwashDate completed:November 16, 2015

2. COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient	%W/W	CAS number	
Sodium hydroxide (50%)	10-30	1310-73-2	

## **3. HAZARDS IDENTIFICATION**

Corrosive liquid. Causes burns. Harmful if swallowed.

4. FI	RST	AID	MEA	<b>SU</b>	RES
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Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.
Eye contact: Skin contact:	Flush with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and flush with plenty of water.

#### **5. FIRE - FIGHTING MEASURES**

Flash point (test method):	Not applicable
Flammable limits (%):	Non-flammable
Lower:	Not applicable
Upper:	Not applicable
Fire extinguishing substances:	Use extinguishing media appropriate for surrounding fire.
Autoignition temperatures:	Not applicable
Hazardous combustion products:	May liberate carbon monoxide, carbon dioxide and oxides of sodium.
Explosion data:	
Sensitivity to mechanical impact:	Not applicable
Sensitivity to static discharge:	Not applicable
Special firefighting procedures:	As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES		
Personal precautions:	Wear appropriate protective equipment.	
Environmental precautions:	Prevent from entering sewers, waterways or low areas.	
Methods for cleaning up:	Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.	

## 7. HANDLING AND STORAGE

Handling:Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.Storage:Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

8. EXPOSURE C	ONTROLS/PERSO	NAL PROTEC	TION		
Engineering cont	rols:			keep airborne levels below	
Respiratory protection:		recommended exposure limits. If exposure exceeds occupational exposure limits, use an appropriate			
		NIOSH approve			
Eye protection:				ce shield if splashing hazards exists.	
Other protection:		vvear protective	e clotning as ne	ecessary to prevent skin contact.	
Exposure limits:					
INGREDIENT		ACGIH	OSHA	Other	
Sodium hydroxide	(50% Sol.)	2 mg/m3 Ceil.	Not available		
9. PHYSICAL AN	ND CHEMICAL PRO	PERTIES			
Physical state:	Liquid	Solubility in wa	ater:	Complete	
Boiling point:	Not available	Vapour pressu		Not available	
Vapour density:	Not available	Evaporation ra		Not available	
Freezing point:	Not available	Odour thresho		Not available	
Sp. Gravity:	1.2096	pH:		14	
Appearance & od		clear, red liquid			
	AND REACTIVITY				
Stability:		Stable			
Conditions of ins	tability:	Not available			
Incompatibility:	tability.		vidizore (X) A	cid () Base () Other	
Conditions of rea	ctivity	Reacts with aci		ciù () Dase () Other	
	nposition products:	Not available	us anu metais		
Hazaluous decon	iposition products.	NOT available			
11. TOXICOLOG	ICAL PROPERTIES	S			
POTENTIAL ACUT	TE HEALTH EFFECT	S			
Inhalation:	Corrosive to respirat	ory system.			
Ingestion:	Harmful if swallowed		o mouth, throa	t and stomach.	
Eye contact:	Corrosive to eyes. C		,		
Skin contact:	Corrosive to skin. Ca				
Skin absorption:	Not applicable				
POTENTIAL CHR	ONIC HEALTH EFFE	CTS			
Inhalation:	Repeat or prolonged		ause damage	to lunas	
Ingestion:	Not available	coposare may o	ause aamage	to lange.	
Eye contact:	Not available				
Skin contact:	Not applicable				
Skin absorption:	Not applicable				
Irritancy of produ			See WHMIS		
Sensitization of p			Not available		
Carcinogenicity:	IARC (1, 2A or 2B)			gnificant effects.	
	ACGIH: (A1, A2 or A	(3)	No known significant effects.		
Reproductive tox	Reproductive toxicity: No known significant effects.				
Teratogenicity:			No known sig	gnificant effects.	
Mutagenicity:			No known sig	gnificant effects.	
Synergistic product:			Not available		

CAS NO. TOXICITY DATA 1310-73-2 LD<sub>50</sub> oral (rabbit) 365 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological information:** Not available **Other information:** 

#### **13. DISPOSAL CONSIDERATIONS**

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

## **14. TRANSPORT INFORMATION**

TDG classification:

UN 1824; sodium hydroxide solution; Class 8; PG II

## **15. REGULATORY INFORMATION**

WHMIS:

Corrosive material

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

#### **16. PREPARATION INFORMATION**

Prepared by: Technical Services Department, Ostrem Chemical Co. Ltd., Ph: (780) 440-1911

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