Safety Data Sheet

	Issue date:	5/25/2016		
Section 1: Product an	d Company Information			
Product Identifier: ACS S Product Code/SKU:	Select Encapsulated Mec 200255	hanical Detergent		
Recommended Use: Restrictions on Use: Product Dilution Information	Industrial/Institutional Metal Safe Warewash Detergent Use only for purpose found on label. Normal usage range 0.023% - 0.0765%			
Manufacturer:	American Chemical Systems II, LLC 2520 South Sheridan St. Wichita, KS USA 67217 (800)889-3489 americanchemicalsystems.com			
Emergency Telephone:	Chemtrec 1-800-424-9300 USA a	and Canada		
Section 2: Hazard Id				
	Product as Sold	Product at use Dilution		
GHS Classification:	Skin irritation/corrosion Eye irritation/eye damage	Not classified		
GHS Labeling Element Signal Word: Symbol:	Danger	No signal word No symbol		
Hazard Statement:	Causes skin and eye damage	No known significant effects or hazards		
Precautionary Statements:	0			
Prevention:	Wear protective clothing, gloves, and eye and face protection.	Wash hands with water after handling		
Response:				
If swallowed: If on skin:	Rinse mouth, do not induce vomiting. Wash with water, remove contaminated clothing.	Seek medical assistance if symptoms persist.		
Inhalation:	Remove person to fresh air - administer artificial respiration if not breathing.			
If in eye:	Flush continuously with water - remove			

	contacts and continue flushing with	h water.
Treatment:	Seek medical assistance if symptom	ns persist.
Storage:	Keep product stored in original cont	tainer, in
	an upright position, with container closed.	tightly
Disposal:	Dispose of contents/container accor	rding to Dispose of contents/container according to
-	local/regional regulations.	local/regional regulations.
Other Hazards:	None known	None known
Section 3: Compos	ition/Information on Ingree	dients
	Product as Sold	Product at use Dilution
Substance/Mixture:	Mixture	
Chemical name	Product Identifier	%
Sodium Hydroxide	CAS 1310-73-2	<3% Within the current knowledge of the

Sodium Carbonate	CAS 497-19-8	20-40%	manufacturer and in the concentrations
Sodium Metasilicate	CAS 6834-92-0	5-10%	applicable, there are no hazardous
Dichloroisocyanuric acid, sodium salt	CAS 2893-78-9	1-5%	ingredients that would require reporting.

There are no additional ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, are classified as hazardous to health or to the environment and hence require reporting in this section. Concentration percentages are given as a claim for a trade secret is being made.

Section 4: First Aid Measures

First Aid Measures:	Product as Sold	Product at use Dilution		
General:	Never give anything by mouth to an	Never give anything by mouth to an		
	unconscious person. If you feel unwell, then	unconscious person. If you feel unwell,		
	seek medical assistance.	then seek medical assistance.		
If swallowed:	Rinse mouth, do not induce vomiting.	Seek medical assistance if symptoms persist.		
If on skin:	Wash with water, remove contaminated	No known effect after skin contact. Rinse		
	clothing.	w/ water.		
Inhalation:	Remove person to fresh air - administer	No specific measures required.		
	artificial respiration if not breathing.			
If in eye:	Flush continuously with water - remove	No know effect with eye contact. Flush with		
, , , , , , , , , , , , , , , , , , ,	contacts and continue flushing with water.	water.		
Treatment:	Seek medical assistance if symptoms persist.			
Important Symptoms and Effe	ects, both Acute and Delayed			
Symptoms/Injuries:	Causes severe skin burns and eye damage.			
	Effects of exposure may be delayed.			
If swallowed:	Ingestion is likely to be harmful and have adverse health effects.	Seek medical assistance if symptoms persist.		
If on skin:	Causes skin burns.			
Inhalation:	Symptoms may cause irritation to the respiratory tract.			
If in eye:	Causes eye damage.			
Recommendation:	Seek medical assistance if symptoms persist	Seek medical assistance if symptoms persist		
	or concerns are present.	or concerns are present.		
First Aid Providers	All first aid providers should receive proper training before performing any first aid act that would involve personal risk. Wash contaminated clothing with water thoroughly before removal or wear gloves.			

Section 5: Firefighting Measures

Suitable Fire Extinguishing	
Media:	No special media necessary. Use extinguishing media appropriate for surrounding fire.
Special Hazards:	Product is non flammable and is not explosive. Product is corrosive to metals as sold.
Advice for Firefighters:	Exercise caution when fighting any chemical fire. Use a water spray to cool containers.
_	Do not enter fire area without proper protective equipment, including respiratory
	protection.
Section 6: Accidenta	l Release Measures

Personal Precautions:	Initiate company's spill procedures.	Do not walk through or touch spilled product. Do not
		Dest and an end of the second of the stand to still and the standard second

Environmental Precautions: Methods for Clean Up: get on skin, in eyes, or on clothing. Put on appropriate personal protection equipment. Avoid runoff into public waterways, sewers, or onto soil.

Follow company's spill procedures. Put on appropriate protective clothing. Neutralize/ absorb spilled product with inert material. Dispose of inert material by placing in suitable container. Dispose of waste safely. Rinse with water for a final clean up.

Section 7: Handling and Storage

Precautions for SafeHandling:Do not get on skin, in eyes, or on clothing. Do not breathe vapor or mist. Do not handle
until all safety procedures have been read and understood. Wash hands and other
exposed areas with soap and water after handling.Conditions for Safe Storage:Keep product in original container, in an upright position, with container tightly closed.
Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control parameters:			
Ingredient Name	Exposure Limits	2	
Sodium Hydrox	ide USA ACGIH Ceilin	$g \qquad 2 mg/m^3$	
	NIOSH REL	2 mg/m^3	
	OSHA PEL (TWA)	2 mg/m^3	
	Product as Sold	Product at use Dilution	
Engineering Controls:	Use adequate ventilation. Keep vapor/fumes	Normal ventilation should be adequate	
	below statutory limits. Provide availability	to control vapor/fumes.	
	to water to flush skin or eyes in case of	-	
	exposure.		
Personal Protection:			
Hand protection:	Wear chemical resistant gloves	None needed under normal use conditions	
Eye protection:	Use chemical splash goggles. For severe exposure, wear face shield.	None needed under normal use conditions	
Skin protection:	Wear suitable protective clothing.	None needed under normal use conditions	
Respiratory protection:	Not necessary under normal operating and	None needed under normal use conditions	
* v *	intended use of this product.		
General:	Wash hands, face, and arms after handling che	mical products and before eating, drinking,	
	or using restroom. Wash contaminated clothing before wearing again.		

Section 9: Physical and Chemical Properties

	Product as Sold	Product at use Dilution
Physical state:	Powder	Liquid
Color:	White	Clear
Odor:	Chemical	Chemical
pH:	12-14	12-14
Evaporation rate:	No data available	
Melting point:	No data available	
Freezing point:	No data available	
Boiling point:	No data available	
Flash point:	No data available	
Explosion limits:	No data available	
Flammability (solid/gas):	No data available	
Vapor pressure:	No data available	
Vapor density:	No data available	
Relative density:	>1 (water=1)	
Solubility:	No data available	
Decomposition temperature:	No data available	

Section 10: Stability and Reactivity

Reactivity:		Thermal decomposition may occur.			
Chemical stability: Stable.					
Hazardous Reactions: Hazardous polymerization will not occur.					
Conditions to	Avoid:	Direct sunlight. Extreme temperatures.			
Incompatible	Materials:	Strong acids. Strong bases. Strong oxidizers.			
Hazardous De	composition	Under normal conditions of storage and use,	hazardous decomposition products should		
Products:	_	not occur.			
Section 1	l: Toxicolog	ical Information			
Routes of Exp	osure:	Ingestion. Skin contact. Inhalation. Eye con	tact.		
		Product as Sold	Product at use Dilution		
Symptoms:	Ingestion:	Adverse effects: stomach pains	No specific data		
• -	Skin Contact:	Adverse effects: irritation, redness, blisters	No specific data		
	Inhalation:	Adverse effects: cough, respiratory irritation	No specific data		
	Eye Contact:	Adverse effects: redness, watering, irritation	No specific data		
Acute Toxicity	: Ingestion:	May cause burns to mouth, throat, stomach	No known effects or critical hazards		
-	Skin Contact:	May cause skin burns	No known effects or critical hazards		
	Inhalation:	May cause respiratory irritation	No known effects or critical hazards		
	Eye Contact:	May cause serious eye damage.	No known effects or critical hazards		
Toxicity Data: Sodium Hydro		xide (1310-73-2) LD50 de	ermal rabbit 1350 mg/kg		
	Sodium Carbor	nate (497-19-8) LD50 or	ral rat 4090/mg/kg		

Sodium Metasilicate (6834-92-0)	LD50 oral rat	600 mg/kg
Dichloroisocyanuric acid, sodium salt (2893-78-9)	LD50 oral rat	735 mg/kg
Dichloroisocyanuric acid, sodium salt (2893-78-9)	LD 50 dermal rat	>5000mg/kg
Dichloroisocyanuric acid, sodium salt (2893-78-9)	LD dermal rabbit	>2000 mg/kg
Dichloroisocyanuric acid, sodium salt (2893-78-9)	LC inhalation rat (mg/l)	>50 mg/l 1 hour

Carcinogenicity:	No known effects or critical hazards
Reproductivity:	No known effects or critical hazards

Section 12: Ecological Information

Section 12: Eco	iogical Inf	ormation				
Toxicity:]	Exposure	Species
Sodiu	n Hydroxide (13	810-73-2)	LC50 Fish 1	45.4 mg/l	96 h	Oncorhynhchus mykiss [static]
Sodiu	n Carbonata (10	7 10 8)	I C50 Fish 1	200 mg/l	06h	Lanomis Macrochirus [static]
	n Carbonate (49	,	LC50 Fish 1	300 mg/l	96h	Lepomis Macrochirus [static]
	n Carbonate (49	,	EC 50 Daphina	265/mg/l	48 h	Daphnia magna
	n Carbonate (49	,	EC 50 Other	242mg/l	120 h	Nitzschia Director la construction la construction
Sodiu	n Carbonate (49	97-19-8)	LC50 Fish 2	310-1220 mg	g/l 96h	Pimpephales promelas [static]
Sodiu	n Metasilicate (6834-92-0)	LC50 Fish 1	210 mg/l	96 h	Brachydanio rerio [semi-static]
Sodiu	n Metasilicate (6834-92-0)	EC50 Daphina 1	216 mg/l	96 h	Daphnia magna
Sodiu	n Metasilicate (6834-92-0)	LC50 Fish 2	210 mg/l	96 h	Brachydanio rerio
Dichloroisocyanuric a	id sodium salt	(2893-78-9)	LC50 Fish 1	.25-1 mg/l	96h	Lepomis Macrochirus [static]
Dichloroisocyanuric a		, ,	EC 50 Daphina	0	48 h	Daphnia magna
Dichloroisocyanuric a			LC50 Fish 2	.0389mg/l	96h	Lepomis Macrochirus [flow]
Dichloroisocyanuric a		, ,	EC50 Daphina 1	0	48 h	Daphnia magna
Densistance and de suc	lahilitan Nota	at a b lt a b a d				
Persistence and degrae	v	established				
Bioaccumulative poter		established established				
Mobility in Soil: Other adverse effects:		noted				
Section 13: Dispo	sai consider				- 1 .	
			ct as Sold			t use Dilution
Disposal methods:	-		n accordance with onal regulations		-	duct may be drained to sanitary card empty container into trash.
Section 14: Trans	port Informa	ation				• •
In accordance with: IC	AO/IATA/DOT	/TDG				
		Produ	ct as Sold			
DOT Classification:	UN 1759					
DOT Shipping name:	OT Shipping name: Corrosive Solid, N.O.S. (Contains So			odium Hydro	xide)	
Class.		8		-		

Class: 8 Packing Group: III Bulk Transport: See shipping documents for specific transportation information Marine Pollutant: No

Section 15: Regulatory Information

US Federal Regulations:		
TSCA 8(b) Inventory	All components are listed or exempted	
SARA 304	No chemicals subject to reporting	
SARA 311/312	Acute health hazard	
SARA 302	No chemicals subject to reporting	
SARA 313	No chemicals subject to reporting	

Section 16: Other Information

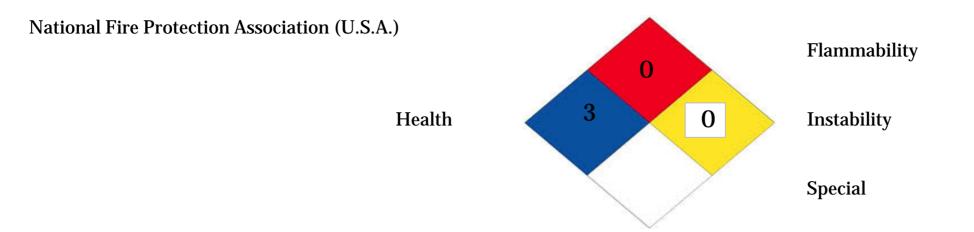
Product as Sold

Hazardous Material Information System:

Health	3
Flammability	0
Physical Hazards	0

Product at use Dilution

Health	0
Flammability	0
Physical Hazards	0



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