

Section 1:		IDENTIFICATION	
Product Name:		CSF Cooling System Flush	
Additional Names:		None	
Manufacturer's Part Number:		N/A	
Recommended Use:		Rust removal	
Restrictions on Use:		None Known	
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Emergency Phone:		+44.2037696644	
Section 2:		HAZARDS IDENTIFICATION	
This product is not classified as hazardous under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).			
OSHA HCS 2012			
Label Elements			
Signal Word:	None	Hazard Symbol(s)/Pictogram(s):	None required
Hazard Statements:	None		
Precautionary Statements:	None		
Hazards Not Otherwise Classified (HNOC):	None		
Other Information:	None Know		
SECTION 3:		COMPOSITION/INFORMATION ON INGREDIENTS	
	Ingredient	CAS Number	Percent Range
	Water	7732-18-5	>83%*
	Proprietary non-hazardous Chelating agent	Proprietary	>16%*
	Proprietary non-hazardous detergent	Proprietary	<1%*
*specific percentages of composition are being withheld as a trade secret			
SECTION 4:		FIRST-AID MEASURES	
Inhalation:		Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.	
Skin Contact:		Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.	
Eye Contact:		Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.	
Ingestion:		May cause upset stomach. Drink plenty of water to dilute. See Section 11.	
Most Important Symptoms/Effects, Acute and Delayed:		None known.	
Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically			

SECTION 5:		FIRE-FIGHTING MEASURES	
Suitable & Unsuitable Extinguishing Media:		Use Dry chemical, CO ₂ , water spray or "alcohol" foam. Avoid high volume jet water.	
Specific Hazards Arising from Chemical:		In event of fire, fire created carbon oxides may be formed.	
Special Protective Actions for Fire-Fighters:		Wear positive pressure self-contained breathing apparatus and full protective clothing.	
This product is non- flammable. See Section 9 for Physical Properties.			
SECTION 6:		ACCIDENTAL RELEASE MEASURES	
Personal Precautions, Protective Equipment and Emergency Procedures:			
For non-emergency personnel:		See section 8- personal protection.	
Environmental Precautions:		Do not allow into open waterways and ground water systems.	
Methods and Materials for Containment and Clean Up:		Dike or soak up with inert absorbent material. See section 13 for disposal considerations.	
SECTION 7:		HANDLING AND STORAGE	
Precautions for Safe Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.			
Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 95 F (35 C) or freezing temperatures.			
SECTION 8:		EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure Limit Values:		No components listed with TWA or STEL values under OSHA or ACGIH.	
Appropriate Engineering Controls:		Showers, eyewash stations, ventilation systems	
Individual Protection Measures / Personal Protective Equipment (PPE)			
Eye Contact:		Use protective glasses or safety goggles if splashing or spray	
Respiratory:		Use in well ventilated areas or local exhaust ventilations when cleaning sma	
Skin Contact:		Use protective gloves (any material) when used for prolonged periods or dermally sensitive.	
General Hygiene Considerations:		Wash thoroughly after handling and before eating or drinking.	
SECTION 9:		PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Clear to yellow liquid	Partition Coefficient: n-octanol/water:	Not determined
Odor:	Slight	Autoignition Temperature:	Non-flammable
Odor Threshold:	Not determined	Decomposition Temperature:	146.1°C(295°F)
pH:	6.0-7.0	Viscosity:	Like water
Freezing Point:	0°C(32°F)	Specific Gravity:	1.04
Boiling Point & Range:	101°C(213.8°F)	VOCs:	0.0
Flash Point:	>100°C (212°F)	SCAQMD 304-91 / EPA 24:	Approved
Evaporation Rate:	As water	CARB Method 310**:	1.2 g/L
			0.010 lb/gal
			0.12%
Flammability (solid, gas):	Not applicable	SCAQMD Method 313:	Approved
Upper/Lower Flammability	Not applicable	VOC Composite Partial Pressure:	Not applicable
Vapor Pressure:	Not determined	Relative Density:	8.26-8.42 lb/gal
Vapor Density:	Not determined	Solubility:	100% in water

SECTION 10:		STABILITY AND REACTIVITY
Reactivity:		Non-reactive
Chemical Stability:		Stable under normal conditions 21°C (70°F) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:		None known.
Conditions to Avoid:		Excessive heat or cold.
Incompatible Materials:		Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
Hazardous Decomposition Products:		Normal products of combustion -CO, CO2.
SECTION 11:		TOXICOLOGICAL INFORMATION
Likely Routes of Exposure:	Inhalation -	Not expected to cause irritation
Skin Contact :		Not expected to cause irritation, repeated contact may cause dry skin.
Eye Contact :		Not expected to cause irritation.
Ingestion :		May cause upset stomach.
Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions		
Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions		
Delayed and immediate effects and or chronic effects from long term exposure: Headache, dry skin, or skin irritation may occur.		
Acute Toxicity:	Oral LD ₅₀ (rat)	> 5 g/kg body weight Dermal LD (rabbit) > 5 g/kg body weight
Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals		
Skin Corrosion/Irritation:		Non- irritant per Dermal Irritation® assay modelling.
Eye Damage/Irritation:		Non- irritant per Ocular Irritation® assay modelling.
Germ Cell Mutagenicity:		Mixture does not classify under this category.
Carcinogenicity:		Mixture does not classify under this category.
Reproductive Toxicity:		Mixture does not classify under this category.
STOT- Single Exposure:		Mixture does not classify under this category.
STOT- Repeated Exposure:		Mixture does not classify under this category.
Aspiration Hazard:		Mixture does not classify under this category.
SECTION 12:		ECOLOGICAL INFORMATION
Ecotoxicity:	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System	
Aquatic:	Not tested on finished formulation.	
Terrestrial:	Not tested on finished formulation.	
Persistence and Degradability:	Readily Biodegradable based on biodegradation profile of ingredients	
Bioaccumulation Potential:	No data available.	
Mobility in Soil:	No data available.	
Other Adverse Effects:	No data available.	
SECTION 13:		DISPOSAL CONSIDERATIONS
Unused or Used Liquid:		Check with local, regional, and or national regulations for appropriate methods of disposal.
Empty Containers:		May be offered for recycling.
Never dispose of used solution into lakes, streams, and open bodies of water or storm drains.		

SECTION 14:		TRANSPORT INFORMATION	
U.N. Number:	Not applicable	U.N. Proper Shipping Name:	Cleaning Compound, Liquid NOI
Transport Hazard Class(es):	Not applicable	NMFC Number:	48580-3
Packing Group:	Not applicable	Class:	55
Environmental Hazards:		Marine Pollutant - No	
Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code):		Unknown.	
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises:		None known.	
U.S. (DOT) / Canadian TDG:	Not Regulated for shipping.	ICAO/ IATA:	Not classified as Hazardous
IMO / IDMG:	Not classified as Hazardous	ADR/RID:	Not classified as Hazardous
SECTION 15:		REGULATORY INFORMATION	
All components are listed on:		TSCA and DSL Inventory.	
SARA Title III:		Sections 311/312 Hazard Categories- Not applicable.	
Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 - Not applicable.			
Sections 302 - Not applicable.			
Clean Air Act (CAA):		Not applicable	
Clean Water Act (CWA):		Not applicable	
CERCLA:		Not applicable	
State Right To Know Lists:		No ingredients listed	
California Proposition 65:		No ingredients listed	
SECTION 16:		OTHER INFORMATION	
Size	Item Number	UPC	
4L		NA	
19L		NA	
110L		NA	
210L		NA	

PREPARER:

Questions about the information found on this MSDS should be directed to

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