


Safety Data Sheet

Section 1. Identification		
Product Identifier	M.S. Cleaner	Version: 8 Effective Date: 15 January 2021
Other Means Of Identification	None	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Steam cleaning detergent, degreaser, aluminium cleaner. No restrictions.	
Product Family	Blend	
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST	

Section 2. Hazard Identification	
Hazard Classification	 <p>Skin Corrosion/ Irritation – Category 1 Eye Damage/Irritation- Category 1</p>
Signal Word	Danger
Hazard Statement	Causes severe skin burns and serious eye damage.
Precautionary Prevention Statement	Do not inhale dust or mist. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection.
Precautionary Response Statement	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water or shower if on clothes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Specific treatment: do not induce vomiting unless directed by medical personnel. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call doctor if you feel unwell.

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Precautionary Storage Statement	Store locked up.
Precautionary Disposal Statement	Dispose of contents / container in accordance with local regulations.
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sodium metasilicate	Sodium silicate	6834-92-0	1-5
Dipropylene glycol methyl ether	DPGME	34590-94-8	1-5
Balance of ingredients are considered non hazardous and constitute a proprietary blend			

Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Immediately flush skin with running water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	If symptoms develop obtain medical attention or call POISON CONTROL CENTER. Do not induce vomiting unless directed to do so by medical personnel. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of vomitus.
Most Important Symptoms and Effects Both Acute and Delayed	Solutions of sodium metasilicate are alkaline. Depending on the concentration, duration, and nature of the exposure, exposure to alkaline solutions may result in irritation to possible burns to any contacted tissue. This material is not a crystalline silica, and it does not cause pulmonary silicosis. Repeated and prolonged skin contact may cause dermatitis.
Immediate Medical Attention and Special Treatment	Treat as a corrosive substance. Treat symptoms with supportive care. There is no specific antidote. The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. It may take 48-72 hours to assess the extent of an ocular burn. Probable mucosal damage may contraindicate the use of gastric lavage.

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Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Use dry chemical, CO ₂ , water spray (fog), or foam.
Hazardous Combustion Products	Carbon monoxide and dioxide.
Specific Hazards Arising From The Product	Corrosive material. Negligible fire hazard.
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves (neoprene), coveralls, footwear suitable for work site. Avoid contact with spilled material.
Environmental Precautions	Do not allow spilled material to enter surface drains and watercourses.
Methods and Materials For Containment and Clean-Up	Soak or pump up spilled material. Place in a container suitable for disposal. Wash area with water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care. Good housekeeping practices should be in place.
Conditions For Safe Storage	Store in a cool dry place. Keep containers closed when not in use.

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Sodium metasilicate	-	-	2mg/m ³	-
Dirpopylene glycol	100ppm	150ppm		600ppm
Methy ether	NIOSH	NIOSH		NIOSH
*Immediately Dangerous to Life and Health				
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure eye wash station and shower are available.			

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Individual Protective Measures	If a risk assessment indicates it is necessary:
Eye / Face Protection	Chemical safety goggles.
Skin Protection	Wear long sleeves
Respiratory Protection	A properly fitted supplied air respirator complying with and approved standards.

Section 9. Physical and Chemical Properties	
Appearance	Pink, clear liquid
Odour	Mild soapy odour
Odour Threshold	Not available.
pH	12
Flash Point	> 93 °C
Boiling Point and Boiling Range	Not determined
Melting Point and Freezing Point	Not determined
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	Not determined
Vapour Density	Not determined
Relative Density	1.076
Solubility	Soluble
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Reacts with metals, producing flammable hydrogen gas.
Chemical Stability	The product is stable
Possibility of Hazardous Reactions	Reacts with acids with the formation of silicate precipitate.
Conditions to Avoid	None known.
Incompatible Materials	Strong acids, strong oxidizing agents. Contact of concentrated material with hot aluminium may leave a white residue.
Hazardous Decomposition Products	Under normal storage conditions, decomposition will not occur.

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Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metasilicate	847 mg/kg	No data	No data
Dipropylene Glycol Methyl Ether	5180mg/kg (Rat)	9500mg/kg (Rabbit)	>500 ppm/7h (rat)
Likely Routes of Exposure			
Skin:	May be corrosive.		
Eyes:	Can cause irritation and damage to eyes.		
Inhalation:	May cause irritation of the upper respiratory tract.		
Ingestion:	May be irritating to mouth and throat. May cause irritation of digestive tract.		
Acute Toxicity Estimates (ATE)	Harmful if swallowed.		
STOT (Specific Target Organ Toxicity) – Single Exposure	Category 3 - Respiratory tract irritation		
Aspiration Toxicity	Corrosive		
STOT (Specific Target Organ Toxicity) – Repeated Exposure	No data		
Skin Corrosion / Irritation	Category 1B - Causes severe skin burns and eye damage		
Serious Eye Damage / Irritation	Category 1 - Causes serious eye damage		
Respiratory or Skin Sensitization	Repeated and prolonged skin contact may cause dermatitis.		
Carcinogenicity	Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC or OSHA.		
Reproductive Toxicity			
- Sexual Function and Fertility	No data		
- Development of Offspring	No data		
- Effects on or via Lactation	No data		
Germ Cell Mutagenicity	Not classified as a mutagen per GHS criteria. In assays using Bacillus subtilis strains without metabolic activation, sodium metasilicate (0.005-0.5 M) was not genotoxic.		
Interactive Effects	No data		
Other Information	Not applicable		

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Section 12. Ecological Information	
Ecotoxicity	Sodium Metasilicate: 96 h LC50: 2320ppm (Mosquito fish); 48 h LC50: 113 mg/L (Water flea) Dipropylene glycol methyl ether: LC50>10,000 mg/L (Pimephales promelas) 96h; LC50: 1919 mg/L (Daphnia magna) 48 h.
Persistence and Degradability	No data
Bioacumulative Potential	Not available
Biodegradability	Not available
Mobility in Soil	Not available
Other Adverse Effects	Not applicable

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents/container in accordance with local regulations.

Section 14. Transport Information	
UN Number	1760
UN Proper Shipping Name	Corrosive Liquid, N.O.S.
Transport Hazard Class(es)	8
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

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Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	October 23, 2012
Date of Latest Revision:	15 January 2021
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