

Houghton Chemical Corporation

Safety Data Sheet

SECURITY® Scrub



Section 1 - Identification			
Manufacturer Address	Houghton Chemical Corporation 52 Cambridge Street, Allston, MA 02134 1-617-254-1010 or 1-800-777-2466		
Emergency Telephone	CHEMTREC: 1-800-424-9300		
Chemical Name & Synonyms	Hydronic System Cleaner		
Chemical Family	Dirt, grime, oil & mill scale remover		
Recommended Use	Cleaning heat transfer systems prior to first use.		
Restrictions on Use	Consult with Houghton Chemical representative for use recommendations.		
Section 2 – Hazard(s) Identification			
Hazard Classification	Skin Corrosion / Irritation: Category 2 Eye Damage / Irritation: Category 2A Specific Target Organ Toxicity (Single Exposure): Category 3		
Signal Word	Warning		
Hazard Statement	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.		
Pictogram Description	GHS: Exclamation Point		
Precautionary Statement	<p>Prevention: Wash hands and other contacted skin thoroughly after handling. Wear eye protection (such as splash goggles) and protective gloves (chemically impervious). Avoid breathing fumes or vapors. Use only outdoors or in a well-ventilated area.</p> <p>Response: If on skin: Wash with soap and plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.</p> <p>Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.</p> <p>Disposal: Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options for the product. Dispose of this container with a registered reconditioner or as otherwise appropriate.</p>		
Any other Hazard not otherwise classified	Not Applicable		
Section 3 – Composition and Information on Ingredients			
Chemical Name	Common name and synonyms	CAS #	% by weight
Poly Silicate	N/A	1344-09-8	0-10%
Salt of Phosphoric Acid	N/A	7320-34-5	0-10%
Non-Hazardous Ingredient	N/A	N/A	80-95%
N/A	N/A	N/A	N/A
Section 4 – First aid Measures			
Symptoms of Exposure			
Acute	Irritation of affected area.		
Delayed	Irritation of the affected area.		
Inhalation	Vapors and mists cause respiratory irritation and may be harmful if inhaled.		
Skin	Irritation of the affected area.		
Eye Contact	Irritation and/or burning sensation.		
Ingestion	May be harmful if swallowed.		

First Aid Instructions	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, consult a doctor and administer oxygen. Consult a doctor if breathing difficulties persist.
Skin	Immediately remove contaminated clothes and shoes. Wash skin with soap and plenty of water for at least 15 minutes. Consult a doctor if any irritation persists.
Eye Contact	Flush eyes with plenty of water for 15 minutes. If the patient is wearing contact lenses, remove them and continue flushing eyes with water. Get medical attention.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If patient can swallow, give 2 glasses of water to drink. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to victim to further dilute the chemical. Get medical attention.
Other	Consult a physician. Show safety data sheet to the doctor in attendance.
Section 5 – Fire Fighting Measures	
Suitable Extinguishing Material	Water fog, water spray, alcohol foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Material	None known other than material that can splatter 100°C/212°F
Hazards from Combustion	Smoke may contain the original material in addition to but not limited to: Carbon Monoxide.
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.
Section 6 – Accidental Release Measures	
Use of personal precautions	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment.
Protective equipment to prevent the contamination of skin, eyes, and clothing.	Use of safety glasses or goggles is recommended. Chemical resistant gloves, chemical resistant apron, boots, and full suit will be necessary depending on the extent of clean-up task. If ventilation does not control airborne concentration then respiratory protection equipment that meets OSHA 29CFR1910.134 and ANSI Z88.2 requirements should be used.
Methods and materials used for containment	Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.
Cleanup procedures	Do not flush to sewer. Comply with all federal, state, and local regulations.
Section 7 – Handling and Storage	
Precautions for safe handling	Protect container from physical damage. Wear appropriate personal protection equipment. Do not expose containers to open flame, excessive heat, or direct sunlight. Use local exhaust over processing area. Do not eat, drink or smoke around products.
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.	Store in a cool, dry and well ventilated area away from sources of heat, moisture and incompatible materials like strong acids, bases, oxidizers, flammables. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination.
Section 8 – Exposure Controls/Personal Protection	
OSHA Permissible Exposure Limits (PELs)	N/A
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	N/A
Other Exposure Limits	N/A
Engineering Control	General room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits.
Individual Protection Measures	Wear protective safety glasses or goggles, gloves, apron, vapor respirator.
Section 9 – Physical and Chemical and Chemical Properties	
Appearance (physical state, color, etc.)	Brown liquid
Upper/lower flammability or explosive limits	Data not available
Odor	slight odor
Vapor pressure	Same as water
Odor threshold	No data available

Vapor density (air = 1)	0.00				
pH	± 12				
Relative density	1.09				
Freezing point (as 50%)	Approx. 32°F/0°C				
Solubility(ies)	Miscible in water				
Initial boiling point and boiling range	212°F/100°C				
Flash point	Data not available				
Evaporation rate (Butyl Acetate = 1)	<1				
Flammability (solid, gas)	Non Flammable				
Partition coefficient: n-octanol/water	N/A				
Auto-ignition temperature	Data not available				
Decomposition temperature; and	N/A				
Viscosity	N/A				
Section 10 – Stability and Reactivity					
Reactivity	Product is stable under typical use temperatures.				
Chemical Stability	Stable under normal conditions of use and storage.				
Hazardous Reactions	Avoid contact with oxidizing materials strong bases and strong acids and any other type of reactive material.				
Conditions to Avoid	Excessive temperature, flames, ignition sources and incompatibles.				
Incompatible Materials	Avoid contact with oxidizing agents, strong bases and strong acids.				
Decomposition Products	Carbon dioxide and carbon monoxide may form when heated to decomposition.				
Section 11 – Toxicological Information					
Likely Routes of Exposure	Eyes / Skin / Ingestion / Inhalation				
	Effects from Short Term Exposure		Effects from Long Term Exposure		
Delayed Effects	Irritation of affected area		None known.		
Immediate Effects	Irritation of affected area		None known.		
Chronic Effects	None known.		None known.		
The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose.			No data available.		
Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.			Irritation of affected area with symptoms of reddening, itching, swelling, and burning.		
Listed in the National Toxicology Program (NTP) Report on Carcinogens?	Not listed.	Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs?	Not listed.	Found to be a potential carcinogen by OSHA?	Not listed.
Section 12 – Ecological Information					
Ecotoxicity	No Data Available				
Persistence and Degradability	No Data Available				
Bioaccumulation	No Data Available				
Mobility in Soil	No Data Available				
Other Adverse Effects	No Data Available				
Section 13 – Disposal Considerations					
Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options					
Section 14 – Transport Information					
Is product DOT regulated in Non-Bulk packaging?					No
DOT BULK					
UN number					Not Regulated

UN proper shipping name	Non Regulated Material
Transport hazard class(es)	Not Regulated
Packing group number	Not Regulated
Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))	Not Regulated
Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code))	Not Regulated
Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises	None

Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)

Safety Regulations	OSHA Hazard Communication Standard: This product is an Irritant and is therefore considered to be a Health Hazard as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Health Regulations	Not Available	
Environmental Regulations	Not Available	
SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - No; Delayed (Chronic) Health hazard - No; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.
HMIS	Blue/Health	1
	Red/Flammability	0
	Orange/Physical Hazard	0
	White/Personal Protection	C
NFPA 0(no hazard) to 4(severe risk)	Health (Blue)	1
	Flammability (Red)	0
	Instability/Reactivity (Yellow)	0
	Special (White)	0
US Toxic Substance Control Act	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30	
CEPA – Domestic Substances List (DSL)	No data available	

Section 16 – Other Information

The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various location

Product Dilutions Differentials

Properties ¹	60%	50%	40%	35%	30%	25%
SECURITY® Scrub		0%				
Performance Additives and Water		0%				
Specific Gravity (15/15°C 60/60°F)						
Reserve Alkalinity (min)						
Freeze Point Max		Approx. 32°F/0°C				

Revision Date: 12/10/2015