



SAFETY DATA SHEET



FIRST CHEMICAL LIMITED

SECTION 1: IDENTIFICATION	
Product Name	D-Scaler.
Product UPC	27909- 02808
Product Code:	02808
Manufacturer Address First Chemical Limited 83 Torbarrie Road Toronto, Ontario M3L 1G5	
Emergency Contact Number :	416- 249- 8050 and 416- 678- 3179
Recommended Use:	Industrial/ Institutional Manual Detergent is the perfect solution to use For pots, pans ,dishes, glasses and all washable Utensils.
Restrictions on Use:	Use only as directed on label.

SECTION 2: HAZARD IDENTIFICATION	
GHS Classification	
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Irritation	Category 1
Eye Irritation	Category 1
Hazard pictogram	Colour: Dark Brown
Signal Word: Warning	Physical State: Liquid
 	Odour: Acidic

Precautionary Statements	Use only outdoors or in a well-ventilated area Do not breathe mist, vapors or spray. Wash hands and any exposed skin thoroughly after handling. Wear protective gloves. Wear eye / face protection. Wear protective clothing. Keep in original or other corrosion resistant container.
Precautionary Statement Response:	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. If eye irritation occurs: Get medical advice/ attention. Take off contaminated clothing and was before refuse
Precautionary Statement Storage:	Keep tightly closed in dry, cool and well-ventilated place.
Precautioned Statements.	None
Hazards not otherwise classified.:	None.

SECTION 3: INGREDIENTS

Pure substances/mixture		
Chemical name	CAS- No.	Concentration: (%)
Water	7732-18-5	70-100
Hydrochloric Acid	7664-38-2	25-35

SECTION 4: FIRST AID MEASURES

In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
In case of skin contact:	Wash off immediately with plenty of water for at least 15 minutes. Use mild soap if available. Get medical attention if irritation develops and persists
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person.. Get medical attention if symptoms occur
If inhaled:	Remove person to get fresh air. Get medical attention if symptoms occur.
Notes to physician:	Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIREFIGHTING MEASURES	
Suitable extinguishing media:	Extinguish fire using agent suitable for surrounding fire.
Unsuitable extinguishing media:	None known
Specific hazards :	Not applicable.
Special protective equipment for firefighters: Sensitive to static discharge	As in any fire, wear self –contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear None
Special hazards arising from the chemical	None

SECTION 6: ACCIDENTAL RELEASE MEASURES	
<u>Personal precautions, protective equipment and emergency procedures</u>	
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas
<u>Environmental precautions</u>	Do not allow contact with soil, surface, or ground water
<u>Methods and material for containment and cleaning up</u>	Stop leak if safe to do so. Contain spillage and then collect with non-combustible absorbent material and place in container for disposal according to local/ nation regulation. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway

SECTION 7: HANDLING AND STORAGE

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Conditions for safe storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep tightly closed in dry, cool area.
Incompatible products	Sodium hypochlorite (or other hypochlorite's). Strong bases. Reactive metals such as aluminum, zinc and tin.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:			
Ingredients	CAS#	ACGIH	OSHA
Hydrochloric acid	7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 7 mg/m ³ Ceiling: 5 ppm Ceiling: 7 mg/m ³
Undiluted Product			
Engineering measures:	Use only in well-ventilated areas.		
Personal Protective Equipment			
Eye Protection:	Chemical-splash goggles.		
Hand protection:	Chemical-resistant gloves		
Skin and body protection:	Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.		
Respiratory protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.		
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Dark Brown
Odour	Acidic Type
PH	1-2
Flash point	> 99 °C / > 210 °F ASTM D56

D-Scaler

Odour threshold	No information available
Melting/freezing point	No information available
Initial boiling point/boiling range	No information available
Evaporation rate	No information available
Flammability (solid and gas)	No information available
Upper explosion limit	No information available
Lower explosion limit	N/A
Vapour pressure	N/A
Relative vapour density	N/A
Specific gravity	1.047- 1.08
Water solubility	Soluble in water
Solubility in other solvents	N/A
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	N/A
Thermal decomposition	N/A
Viscosity of Product	Like Water
Explosive properties	N/A
Oxidizing properties	N/A
Molecular weight	N/A
VOC	N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity	None under normal use conditions.
Chemical Stability	Stable under normal. conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.
Hazardous Decomposition Products	None under normal use conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system
Eye contact	Avoid contact with eyes. Eye contact may cause permanent damage.

Skin contact	Pain, redness, blistering and possible chemical burn.			
Ingestion	May be harmful if swallowed.			
Chemical Name	Cas#	Oral LD50	Dermal LD50	Inhalation LD50
hydrochloric acid	7647-01-0	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h -
Water	7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Immediate, Delayed, Chronic Effects Product Information:	Data not available or insufficient for classification.			
Target Organ Effects:	-Eyes. Respiratory System. -Skin.			

SECTION 12: ECOLOGICAL INFORMATION

Chemical Name	Cas#	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Hydrochloric Acid	7647-01-0	Not Available	282: 96 h Gambusia affinis mg/L LC50 static	Not Available	Not Available
Ecotoxicity	The product is not expected to be hazardous to the environment.				
<u>Persistence and degradability</u>	No information available				
<u>Bioaccumulation</u>	No information available.				
<u>Mobility</u>	No information available.				
<u>Other adverse effects</u>	No information available.				

SECTION 13: DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Do not reuse container. Dispose of in accordance with federal, state and local regulations
California Hazardous Waste Codes	D002

SECTION 14: TRANSPORT INFORMATION

<u>DOT</u> : <u>Proper Shipping Name:</u> Hazard Class: Packing Group:	UN 1789 Corrosive liquids n.o.s (contains hydrochloric (muriatic) acid) 8 II
<u>Special Provision:</u>	Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination.
IMDG Proper shipping name Hazard Class: Packing Group:	UN 1789 Corrosive liquids n.o.s. (contains hydrochloric (muriatic) acid) 8 II

SECTION 15: REGULATORY INFORMATION**International Inventories at Cas# Level**

All components of this product are listed on the following inventories: U.S.A. (TSCA), CANADA (DSL/NDSL)

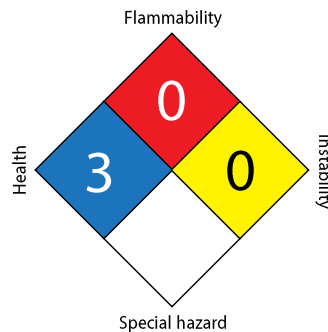
Legend:

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL- Canadian Domestic Substances List/ Non- Domestic Substances lists

<u>US Federal Regulation</u>	
<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals	
<u>Sara 311/312 Hazard Categories</u>	
Immediate	X
Delayed	-
Fire hazard	-
Sudden release of pressure hazard	-
Reactive hazard	-

SECTION 16: OTHER INFORMATION								
NFPA	Health Hazards	3	Flammability	0	Instability	0	Special	N/A
HMIS	Health Hazards	3	Flammability	0	Physical Hazards	0		
Revision Date :					Dec 15 /2017			
Prepared by :					Regulatory Affairs			



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End of Safety Data Sheet