SAFETY DATA SHEET
Brick Cleaner

SECTION 1. IDENTIFICATION Revision Date: 19 December 2020

1.1 Identifier

Product Brand name: Brick Cleaner
Product Description: Blend of various acids with other adjuvant.
Product Code: 200468

1.2 Recommended Use & Restriction on Use:

Cleaning Metal and Inorganic Surfaces.
Not for Food, Drug, Pesticide or Biocide use. Read all 16 sections stated herein thoroughly and completely.

1.2 Details of the supplier of the safety data sheet

Tidol Corporation
146 Shorting Road, Scarborough ON M1S 3S6, Canada
Tel: 416-293-2244/ 1-800-881-8672 Fax: 416-293-5808
Email: info@tidolcorp.com

1.3 Emergency Telephone Number

Vendor 1-800-881-8672 or 416-293-2244 24hrs

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or Mixture

Skin Corrosion (Category 1B)
Serious Eye Damage (Category 1)
Metal Corrosion (Category 1)
Specific target Organ (Category 3)

2.2 Label elements

Signal Word Danger

Hazard Statements

H290-May be corrosive to metals
H314-Causes severe skin burns and eye damage
H335-May cause respiratory irritation

Precautionary Statements

Prevention

P234- Keep only in original container.
P260-Do not breathe dust/fume/gas/mist/vapors/spray
P264- Wash skin thoroughly after handling
P271- Use only outdoors or in a well-ventilated area

Response

P301 + P330 + P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
P304 + P340-IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310-Immediately call a POISON CENTER or doctor/physician.
P312- Call a POISON CENTER or doctor/physician if you feel unwell
P321-Specific treatment
P363-Wash contaminated clothing before reuse.
P390- Absorb spillage to prevent collateral material damage

2.3. Supplemental label elements: Mix only with water, do not mix with any other product or chemicals.

Storage

P403 + P233- Store in a well-ventilated place, Keep container tightly closed
P405-Store locked up.
P406- Store in corrosive resistant/container with a resistant inner liner.

Disposal

P501- Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.4 Other hazards

Potential Acute Health effects:

Hazardous in case of contact with eyes, skin; if ingested and inhaled. Liquid, mist or powder may produce tissue damage especially mucous membrane of eyes, mouth, nostrils and respiratory tract. Will burn eyes and skin on contact. Respiratory tract characterized by coughing, choking and shortness of breath. Inflammation of eyes results in redness, watering and itching. Skin contact may result in scaling, redness or blistering.

Potential Chronic Health effects

Carcinogenic- Not available
Mutagenic- Not available
Teratogenic- Not available
Embryonic- Not available
Maybe toxic Kidneys, Liver, Mucous membranes, Respiratory tract, Skin and Teeth

2.5 Unknown Acute Toxicity

No information available

SECTION 3. COMPOSITON/INFORMATION ON INGREDIENTS

3.1 Substances

No information available

3.2 Mixtures

COMPONENT	CAS #	CONCENTRATIONS W/W
Sulfuric Acid	7664-93-9	5-10%
Hydrofluoric Acid	7664-39-3	3-5%
Phosphoric Acid	7732-18-5	1-2%

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General notes Precaution should always be taken to avoid skin/eye contact with any chemical substance. Precaution should always be taken to avoid contact or inhalation of fumes of any chemical substance.

Inhalation	Remove to fresh air, apply artificial respiration or administer oxygen if necessary. Seek prompt medical attention, if symptoms persist.
Skin contact	Immediately remove contaminated clothing and flush skin with potable water for at least fifteen minutes. Wash skin with mild soap and water. Launder clothes before reuse.
Eye contact	Flush continuously with potable water for 15 minutes. Forcibly hold eye lids apart to ensure irrigation of all eye tissue. If irritation persists, get medical attention.
Ingestion	Do not induce vomiting without medical advice. If ingestion of large amount occurs seek medical attention. Never give anything by mouth if the victim is unconscious or losing consciousness or convulsing. Rinse mouth with water and drink small quantity of water.

Self-protection of the first aider: No information available

4.2 Most important symptoms and effects, both acute and delayed

Product is a corrosive material; causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to delicate tissue and danger of perforation. Use of gastric lavage or emesis contraindicated due to the product being corrosive. Possible perforation of stomach or esophagus should be investigated.

4.3 Indication of any immediate medical attention and special treatment needed.

No information Available.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Non flammable, use appropriate media for surrounding fire.
Unsuitable extinguishing media:	No information available.

5.2 Special hazards arising from the substance or mixture

Not available

5.3 Special precautions for firefighters

Use NIOSH/MSHA approved SCBA and full protective equipment. No special fire fighting procedures needed. Avoid breathing in vapours. Cool containers with water from maximum of distance.

5.4 Special protective equipment for firefighters

Fire fighters should wear full protective gear including self contained breathing apparatus with full face shield operated in positive pressure mode.

NFPA

Health	Flammability	Instability	Physical hazards
4	0	1	N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Do not flush into sanitary or storm sewer or water cause as this material is toxic to fish and wildlife.

6.3 Methods and material for containment and cleaning up

Cover spill with suitable absorbent material, sand or vermiculite, mix well and carefully transfer to a well marked container. In case of powders sweep up without causing dust and close lid tightly and have it

disposed. Vacuum using a vacuum cleaner equipped with a HEPA filter or wet sweeping may be used to avoid dust dispersal. Follow national, provincial, city and local laws and bylaws in disposing.

6.4 Reference to other sections

No information available.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid all eye and skin contact. Avoid ingestion. Do not breathe dust, gas or fumes. Do not consume tobacco, food or drinks in areas where they may become contaminated with this material. Wash thoroughly after handling. Handle and open container with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well ventilated area. Protect from humidity. Prevent accumulation of dust. Store away from all incompatible materials. Keep container closed when not in use. Do not store in Aluminum, Brass, Copper, Zinc, Copper alloys, Galvanized containers. In case of high humidity or storage for extended periods of time, use plastic bags to avoid caking.

7.3 Incompatibilities/Specific end uses

Incompatibilities Other Detergent Products, acids and bases

Specific end uses Industrial Use.

Additional Information

Special shipping instructions: Protect against physical damage. Use precaution when handling or shipping any chemical substance. Present appropriate placards when applicable, be sure documentation is correct, and each container has the proper safety marks affixed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limits

SUBSTANCE	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Hydrofluoric acid	TWA: 0.5 ppm TWA: 2.5 mg/m3 Ceiling: 2 ppm Skin	(Vacated) TWA: 3 ppm (Vacated) TWA: 2.5 mg/m3 (Vacated) STEL: 6 ppm TWA: 3 ppm	IDLH: 30 ppm IDLH: 250 mg/m3 TWA: 3 ppm TWA: 2.5 mg/m3 Ceiling: 6 ppm Ceiling: 5 mg/m3	TWA: 0.5 ppm TWA: 2.5 mg/m3 Ceiling: 2 ppm

Legend ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

8.2 Control Parameters

Not Available

8.3 Engineering Controls/Exposure Controls

Engineering controls Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls Do not allow material to enter sanitary and or storm sewer, follow city bylaws.

8.4 Protective Measures

Eye/face protection Chemical safety goggles

Hand protection Wear impervious gloves (e.g. neoprene, rubber) when there is

	greater exposure risk.
Other Skin protection	wear impervious protective clothing when there is greater risk.
Other protection	An eye wash station and safety shower should be near the work area.
Respiratory protection	A MSHA/NIOSH approved respirator is recommended when there is greater risk
General hygiene consideration	No information available.
Thermal hazards	No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Appearances	Liquid
Initial Boiling Point	Not applicable
Boiling Range	105 °C / 221 °F
Bulk Densities	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Non flammable
Upper Flammability limit	Non Flammable
Lower Flammability limit	Non flammable
Partition coefficient	Not available
Auto Ignition temperature	Non flammable
Decomposition Temperature	Not available
Color	Clear/Colorless
Densities	Not Available.
Explosive properties	Not Applicable
Extinguishing Media for Fires	Non-Flammable
Flash Points	Not Available.
Heats of Combustion	Not Available.
Henry's Law Constant	Not Available.
Melting point/freezing point	-35 °C / -31 °F
Odor Threshold Values	Not Available.
Odors	Pungent
Percent Volatility	Not Available.
pH Value	1.00 $\pm$ 0.50
Specific Gravity	1.025
Vapor Pressures	Not Available.
Viscosity	Not Applicable
Water Miscibility	Water Soluble
Water Solubility (Qualitative)	Infinite

9.2 Other information

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	No information available.
10.2 Chemical stability	Stable under ambient STP
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	Contact with incompatible materials
10.5 Incompatible materials	Contact with ammonium salts may produce ammonia gas. Contact with reducing sugars may produce carbon monoxide gas. Lead and zinc. Tin. Aluminum
10.6 Hazardous decomposition products	None

SECTION 11. TOXICOLOGICAL

11.1 Information on likely routes of exposure

Skin contact Dermal corrosion

Eye contact Corrosive to eyes

Inhalation Causes irritation to the respiratory tract. Symptoms include coughing, shortness of breath. Behaves as a moderately strong alkali; intense exposure may result in the destruction of mucous membranes. May cause asthmatic bronchitis, chemical pneumonitis, or pulmonary edema.

Ingestion Can cause irritation to mouth, throat and stomach. Large dose may cause violent colic, diarrhea, depression and possible death

Symptoms related to the physical, chemical and toxicological characteristics

No information available.

11.2 Information on toxicological effects

Acute Toxicity

Acute Toxicity

Product Information

Oral LD50 Category 2. ATE = 5 - 50 mg/kg.

Dermal LD50 Category 1. ATE < 50 mg/kg.

Vapor LC50 Category 2. ATE = 0.5 - 2 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen fluoride	Not listed	Not listed	LC50 = 0.79 mg/L (Rat) 1 h

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory sensitization No information available.

Skin sensitization No information available.

Carcinogenicity No known reports of carcinogenicity. Not a listed carcinogen NTP, IARC, or OSHA.

Germ cell mutagenicity No information available.

Reproductive toxicity Not information available

Specific target organ toxicity-single exposure No information available.

Specific target organ toxicity-repeated exposure No information available.

Aspiration hazards No information available.

SECTION 12. ECOLOGICAL

12.1 Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hydrogen fluoride	Not listed	LC50 = 660 mg/L, 48h (Leuciscus idus)	Not listed	EC50 = 270 mg/L, 48h (Daphnia species)

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Miscible with water

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Hydrogen fluoride	-1.4

12.2 Persistence and degradability No information available.
12.3 Bio accumulative potential No information available.
12.4 Mobility in soil No information available.
12.5 Results of PBT and vPvB assessment No information available.
12.6 Other adverse effects No information available.
12.7 Additional Information

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Hydrogen fluoride - 7664-39-3	U134	-

SECTION 14. TRANSPORT

Product as sold

Land Transport -TDG Ground/Rail

14.1 UN number UN1790
14.2 UN proper shipping name Hydrofluoric Acid
14.3 Transport hazard class(es) 8
14.3 Subsidiary Class 6.1
14.4 Packing group II
14.5 Environmental hazards No information available.
14.6 Special precautions for user Follow sections 2,3,and 4
14.7 Transport in bulk according to Annex II of Marpol112 and the IBC Code
No information available

SECTION 15. REGULARTORY INFORMATION

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Hydrogen fluoride	7664-39-3	X	ACTIVE	-
Water	7732-18-5	X	ACTIVE	-

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed
TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Hydrogen fluoride	7664-39-3	X	-	231-634-8	X	X	X	X	KE-20198
Water	7732-18-5	X	-	231-791-2	X	-	X	X	KE-35400

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Hydrogen fluoride	7664-39-3	40-60	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Hydrogen fluoride	X	100 lb	-	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrogen fluoride	X		-

OSHA - Occupational Safety and Health Administration Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Hydrogen fluoride	-	TQ: 1000 lb

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Hydrogen fluoride	100 lb	100 lb

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrogen fluoride	X	X	X	X	X
Water	-	-	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): N

SECTION 16. OTHER INFORMATION

Specific Hazard: N/A

HMIS Ratings :

The information on this Safety Data Sheet has been obtained from the Globally Harmonized System of Classification and Labeling of Chemicals, Guidance on the preparation of Safety Data Sheet, Suppliers, Manufacturers, and where applicable, from other reliable sources such as CCOHS, RTECS and worldwide web. However, TIDOL CORPORATION makes no warranties, expressed or implied, as to the accuracy; completeness or adequacy of the information contained herein, and shall not be held liable, regardless of fault, to anyone directly or indirectly for damages or injuries in the use of this product arising out of or in connection with the accuracy, completeness or adequacy of such information. It is the purchaser and the user of the product to evaluate the usefulness of the product and the information inscribed here.

Free samples are provided for testing for fitness of the product for use by the purchaser or another third party client and their compliance with applicable statues is a strict condition of sale. All information given in course of communication is from the best of our knowledge of the products. All recommendations and suggestions are believed to be reliable within limited scope, but should not be construed as warranties. Tidol Corporation, their associated companies and directors disclaim any liability in connection with the purchase, transportation, storage and the use of the product or any data communication.
This Safety data sheet was prepared in compliance with Canadian Hazardous Products Act. 1985, c.H-3 and Hazardous products Regulations 2015-17, Globally Harmonized System of Classification and Labeling of Chemicals and Guidance on the preparation of Safety Data Sheets.