

# SAFETY DATA SHEET

## Metal Cleaner 3

Date of Issue: 20 December 2020

### SECTION 1. IDENTIFICATION

#### 1.1 Identifier

Product Brand name: Metal Cleaner 3 (MC 3)  
Product Description: Alkaline Detergent  
Product Code: 200278

#### 1.2 Recommended Use & Restriction of Use:

Detergent for Ultrasonic Cleaning.

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

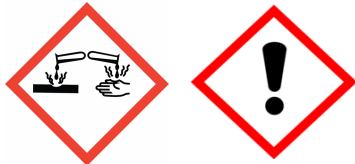
Vendor 1-800-881-8672 or 416-293-2244 - 24hrs

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or Mixture

Skin Corrosion	Category 1B
Eye Damage	Category 1
Metal Corrosion	Category 1
Specific target organ toxicity	Category 3

#### 2.2 Label elements



**Signal Word** Warning

#### 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. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

No information available

**3.2 Mixtures**

COMPONENT	CAS #	CONCENTRATIONS W/W
Sodium Metasilicate	6839-92-0	<9%

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>General notes</b>	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.
<b>Inhalation</b>	Remove to fresh air, apply artificial respiration or administer oxygen if necessary. Seek prompt medical attention, if symptoms persist.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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

<b>Suitable extinguishing media:</b>	Non flammable, use appropriate media for surrounding fire.
<b>Unsuitable extinguishing media:</b>	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.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ventilate the contaminated area. Wear self contained breathing apparatus and full protective clothing.

### 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

<b>Incompatibilities</b>	Other Detergent Products, acids and bases
<b>Specific end uses</b>	Cleaning, Sanitizing and Deodorizing.

### 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

Component	Regulation	Type of Listing	Value
Sodium metasilicate	Not Available		

### 8.2 Control Parameters

Not Available

### 8.3 Engineering Controls/Exposure Controls

<b>Engineering controls</b>	Good general ventilation is normally adequate, local exhaust at the points of emission. Keep container closed.
<b>Environmental exposure controls</b>	Do not allow material to enter sanitary and or storm sewer, follow city bylaws.

### 8.4 Protective Measures

<b>Eye/face protection</b>	Chemical safety goggles
<b>Hand protection</b>	Wear impervious gloves (e.g. neoprene, rubber) when there is greater exposure risk.
<b>Other Skin protection</b>	wear impervious protective clothing when there is greater risk.
<b>Other protection</b>	An eye wash station and safety shower should be near the work area.
<b>Respiratory protection</b>	A MSHA/NIOSH approved respirator is recommended when there is greater risk
<b>General hygiene consideration</b>	No information available.
<b>Thermal hazards</b>	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	Not applicable
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	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	Not applicable
Odor Threshold Values	Not Available.
Odors	Odorless
Percent Volatility	Not Available.
pH Value	12.5 ± 0.50
Specific Gravity	1.025
Vapor Pressures	Not Available.
Viscosity	Waterlike
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

<b>Skin contact</b>	Dermal corrosion
<b>Eye contact</b>	Corrosive to eyes
<b>Inhalation</b>	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.
<b>Ingestion</b>	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** Refer to route of entry  
**Chronic effects** Not Available.

### 11.3 Numerical measures of Toxicity

Substance	LD 50 (Oral Rat)	LD50 (Dermal, Rabbit)	LC50 (Inhalation, Rat, 4h)
	NA	NA	NA
<b>Skin corrosion/irritation</b>			No information available.
<b>Serious eye damage/eye irritation</b>			No information available.
<b>Respiratory sensitization</b>			No information available.
<b>Skin sensitization</b>			No information available.
<b>Carcinogenicity</b>			No known reports of carcinogenicity. Not a listed carcinogen NTP, IARC, or OSHA.
<b>Germ cell mutagenicity</b>			No information available.
<b>Reproductive toxicity</b>			Not information available
<b>Specific target organ toxicity-single exposure</b>			No information available.
<b>Specific target organ toxicity-repeated exposure</b>			No information available.
<b>Aspiration hazards</b>			No information available.

## SECTION 12. ECOLOGICAL

### 12.1 Ecotoxicity

Median tolerance for fish (gambusia affinis, 96 h): 2320 ppm. Median tolerance for amphopoda, 96h: 160 ppm. Median tolerance for snail eggs (lymnea, 96h): 632 ppm. Median tolerance for water fleas (daphnia magna, 96h): 247 ppm. Harmful to aquatic organisms.

**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

**Handling for disposal** All waste from this product including all empty containers must be disposed of in accordance with municipal, provincial and federal regulations.  
**Methods of disposal** No information available.  
**Contaminated packaging** No information available.

## SECTION 14. TRANSPORT

### Product as sold

#### Land Transport -TDG Ground/Rail

**14.1 UN number**  
**14.2 UN proper shipping name**  
**14.3 Transport hazard class(es)**  
**14.4 Packing group**

- 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. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Chemical Weapons Convention**

No components are subject to the Chemical Weapons Convention Section 1.

**Chemical Management Plan 3 (2016-2020)**

No components are subject to the Chemical Management Plan 3 (2016-2020) Section 1.

**Condition - Canada**

No components are subject to the Condition - Canada Section 1.

**New Substance Notification**

No components are subject to the New Substance Notification Section 1.

**Prohibited - Canada**

No components are subject to the Prohibited - Canada Section 1.

**Restricted Components**

Silicic Acid (H2SiO3), Disodium Salt (6834-92-0)

**Schedule 1 - Toxic Substance**

No components are subject to the Schedule 1 - Toxic Substance Section 1.

**Chemical Weapons Convention**

No components are subject to the Chemical Weapons Convention Section 1.

**Chemical Management Plan 3 (2016-2020)**

No components are subject to the Chemical Management Plan 3 (2016-2020) Section 1.

**Condition - Canada**

No components are subject to the Condition - Canada Section 1.

**New Substance Notification**

No components are subject to the New Substance Notification Section 1.

**Prohibited - Canada**

No components are subject to the Prohibited - Canada Section 1.

**Restricted Components**

No components are subject to the Restricted Components Section 1.

**Schedule 1 - Toxic Substance**

No components are subject to the Schedule 1 - Toxic Substance Section 1.

**15.2 Chemical Safety Assessment**

No Information Available

**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.

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