

# SAFETY DATA SHEET

## Wheel Brite

Revision Date: 19 December 2020

### SECTION 1. IDENTIFICATION

#### 1.1 Identifier

Product Brand name: Wheel Brite  
Product Description: Blend of various acids with other adjuvant.  
Product Code: 200121

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

### **3.1 Substances**

No information available

### **3.2 Mixtures**

<b>COMPONENT</b>	<b>CAS #</b>	<b>CONCENTRATIONS W/W</b>
Sulfuric Acid	7664-93-9	15-20%
Hydrofluoric Acid	7664-39-3	2-5%
Phosphoric Acid	7664-38-2	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

<b>Incompatibilities</b>	Other Detergent Products, acids and bases
<b>Specific end uses</b>	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/m <sup>3</sup> Ceiling: 2 ppm Skin	(Vacated) TWA: 3 ppm (Vacated) TWA: 2.5 mg/m <sup>3</sup> (Vacated) STEL: 6 ppm TWA: 3 ppm	IDLH: 30 ppm IDLH: 250 mg/m <sup>3</sup> TWA: 3 ppm TWA: 2.5 mg/m <sup>3</sup> Ceiling: 6 ppm Ceiling: 5 mg/m <sup>3</sup>	TWA: 0.5 ppm TWA: 2.5 mg/m <sup>3</sup> 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	1.5 ± 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

<b>10.1 Reactivity</b>	No information available.
<b>10.2 Chemical stability</b>	Stable.
<b>10.3 Possibility of hazardous reactions</b>	No information available.
<b>10.4 Conditions to avoid</b>	Contact with incompatible materials
<b>10.5 Incompatible materials</b>	Contact with ammonium salts may produce ammonia gas. Contact with reducing sugars may produce carbon monoxide gas. Lead and zinc. Tin. Aluminum
<b>10.6 Hazardous decomposition products</b>	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
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	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

<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**

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. REGULATORY INFORMATION**

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302 Listed:	Hydrofluoric Acid
SARA 304 Listed:	Hydrofluoric Acid
SARA 311	Acute Health Hazard Chronic Health Hazard
SARA 312	Acute Health Hazard, Chronic Health Hazard
SARA 313 Listed:	Hydrofluoric Acid
WHMIS Canada	Class E: Corrosive material Class D-1B: Poisonous and infectious material- Immediate and serious effects- Toxic

**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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