

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name ● Acid Wheel Cleaner

Product Code ● 151

Relevant identified uses of the substance or mixture and uses advised against

Recommended use ● Wheel cleaning and degreasing

Details of the supplier of the safety data sheet

Manufacturer ● Tate Soaps & Surfactants, Inc.

1500 N. Webster St.
Kokomo, IN 46901
United States
www.tatesoaps.com

Telephone (General) ● 765-868-4488

Emergency telephone number

Manufacturer ● 800-424-9300 - CHEMTREC

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

Health	Environmental	Physical
Acute Toxicity - Category 2 (oral) Eye Effects - Category 1 Skin Corrosion/Irritation - Category 1B Carcinogenicity - Category 2 Aspiration Toxicity - Category 1	Aquatic Toxicity - Data unavailable	Flammable Liquid - Noncombustible

Label elements

OSHA HCS 2012

Symbols:



Hazard Statements:

Danger

Fatal if swallowed

Causes severe skin burns and severe eye damage

Suspected of causing cancer.

May be fatal if swallowed.

Precautionary Statements:

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling

Do not eat, drink, or smoke when using this product.

Do not breathe dusts or mists.

Wear protective gloves and eye protection.

Response

If swallowed: Immediately call a poison center. Rinse mouth.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash clothes before reuse. Immediately call a poison center.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center.

Storage

Store locked up.

Disposal

Dispose of contents in accordance with local regulations.

Other information – NFPA Rating



Section 3: Composition/ Information on Ingredients

Mixtures

Hazardous Components			
Chemical Name	CAS	%(weight)	LD50/LC50
Butoxy Ethanol	111-76-2	<5%	Acute oral toxicity: Rat 470 mg/kg Acute dermal toxicity: Rabbit 220 mg/kg
Sulfuric Acid	7664-93-9	<8%	Acute oral toxicity: Rat 2140 mg/kg Inhalation toxicity: Rat 510 mg/m ³ (2 hours)
Hydrofluoric Acid	7664-39-3	<5%	Inhalation toxicity: Mouse 342 mg/m ³ (1 hour)
Alcohols, C9-C11, Ethoxylated	68439-46-3	<5%	Acute oral toxicity: Rat > 2000 mg/kg Acute dermal toxicity: Rabbit > 2000 mg/kg

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or stopped, start resuscitation.

Skin

- Remove contaminated clothing and flush skin with large quantities of cool water for 5 minutes. Apply 2.5% calcium gluconate gel to affected areas every 15 minutes. Affected areas can also be soaked with iced 0.13% benzalkonium chloride solution and used as compresses for the burned area. Compresses should be changed every 2-3 minutes and continued until pain is relieved. If neither option is available, use an iced saturated solution of magnesium sulfate or iced 70% alcohol. Get medical help as soon as possible.

Eye

- IF IN EYES: Wash with cool water for at least 15 minutes. Lift lids. Do not rub. Get medical attention immediately.

Ingestion

- Do NOT induce vomiting. Dilute by drinking milk or water. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- This product contains HF and local effects are concentration dependent. Ingestion, skin contact or severe inhalation can cause severe systematic cardiovascular effects. Exposure of >5% of the body surface area with HF may predispose the development of hypocalcaemia

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media ● Dry chemical, carbon dioxide, water spray

Unsuitable Extinguishing ● Avoid the use of streaming water, as this may spread the fire.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards ● None. Non-combustible.

Hazardous Combustion Products

- Acid vapors, aldehydes, carbon dioxide and carbon monoxide, corrosive vapors, hydrogen fluoride, ketones, organic acids, sulfur oxides, toxic fumes

Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. Use water spray to cool containers exposed to fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

Section 7: Handling and Storage

Precautions for safe handling

Handling

- Avoid damage to container in handling.

Conditions for safe storage, including any incompatibilities

Storage

- Store at room temperature. Keep from freezing.

Incompatible Materials or Ignition Sources

- Keep away from heat, ignition sources oxidizers and strong acids.

Section 8: Exposure Controls/Personal Protection Control Parameters

Exposure Limits/Guidelines				
	Result	ACGIH	OSHA	NIOSH
Butoxy Ethanol (111-76-2)	TWAs	20 ppm	50 ppm 240 mg/m ³	5 ppm 24 mg/m ³
Sulfuric Acid (7664-93-9)	TWAs	0.2 mg/m ³	1 mg/m ³	1 mg/m ³
Hydrofluoric Acid (7664-39-3)	TWAs	0.5 mg/m ³	3 ppm	6 ppm 5 mg/m ³
Alcohols, C9-C11, Ethoxylated (68439-46-3)	TWAs	No data available	No data available	No data available

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Personal Protective Equipment

Pictograms



Respiratory

- NIOSH Air Purifying respirator or cartridge

Eye/Face

- Wear safety goggles or face shields

Hands

- Wear protective gloves –neoprene or nitrile gloves.

Skin/Body

- Wear appropriate chemical impervious clothing whenever there is potential for skin contact. Launder clothing before reuse.

General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Appearance/Description	Colorless liquid with pungent scent		
Odor	Pungent scent	Odor Threshold	Data lacking
Boiling Point	220 °F	Melting Point	Not applicable
pH	(<) 1	Specific Gravity/Relative @ 20°C	1.031 Water = 1
Density	1.031 g/cc	Solubility	Completely soluble in water
Vapor Pressure @ 20°C	16.75	Vapor Density @ 20°C	Highest known = 2.1
Evaporation Rate	1 n-butyl = 1	Flammability	Not Applicable
Flash Point	Not Applicable	Flammability Limits	Not Applicable
Partition Coefficient	Not Applicable	Auto-ignition Temperature	Not Applicable
Decomposition Temperature	221 °F	Viscosity	1.002

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Do not allow evaporation to dryness. Keep away from heat, flames, and sparks.

Incompatible materials

- Strong acids, strong oxidizing agents

Hazardous decomposition products

- Carbon dioxide, Carbon monoxide, Nitrogen dioxide, Nitrogen monoxide
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Section 11: Toxicological Information

Information on toxicological effects

Component Name	CAS	Data
Butoxy Ethanol	111-76-2	Acute Toxicity: Acute oral toxicity: Rat 470 mg/kg. Acute dermal toxicity: Rabbit 220 mg/kg Irritation: Eye and skin irritation Reproductive: May cause adverse reproductive effects based on animal data
Sulfuric Acid	7664-93-9	Acute Toxicity: Acute oral toxicity: Rat 2140 mg/kg. Inhalation toxicity: Rat 510 mg/m ³ (2hours) Irritation: Severe eye irritation and severe skin irritation Reproductive: No data available
Hydrofluoric Acid	7664-39-3	Acute Toxicity: Inhalation toxicity: Mouse 342 mg/m ³ (1 hour) Irritation: Severe eye irritation and severe skin irritation Reproductive: May cause adverse reproductive effects (Fetotoxicity) based on animal data
Alcohols, C9-C11, Ethoxylated	68439-46-3	Acute Toxicity: Acute oral toxicity: Rat > 2000 mg/kg. Acute dermal toxicity: Rabbit > 2000 mg/kg Irritation: Eye and skin irritation Reproductive: No data available

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Category 4 (oral)
Aspiration Hazard	OSHA HCS 2012 • Aspiration Toxicity - Category 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity - Category 2
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Effects - Category 2
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Corrosion/Irritation - Category 1B
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met

Target Organs

- Central Nervous System, lungs

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

- Acute (Immediate)** • May be harmful or fatal if inhaled. May cause severe irritation to nose/throat.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Both liquid and vapor can cause severe burns. Burns can be deep and possibly cause bone damage.
- Chronic (Delayed)** • Repeated and prolonged exposure may dry the skin. May be fatal.

Eye

- Acute (Immediate)** • Can cause permanent eye injury. Can injure the cornea and cause blindness.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • May be fatal if swallowed. May cause burns and destroy tissue in the mouth, throat and digestive tract. Low blood pressure and shock may occur.
- Chronic (Delayed)** • No data available

Section 12: Ecological Information

Toxicity

- Sulfuric Acid - LC50: Western mosquitofish 42 mg/L (96 hours)
- Alcohols, C-9-11, Ethoxylated - LC50: Fathead minnow 8.5-17 mgL (96 hours)

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Butoxy Ethanol - Partition coefficient: log Pow 0.83

Mobility in Soil

- Sulfuric Acid - Surface tension: 55.1 mN/m
- Butoxy Ethanol - Surface tension: 27. mN/m

Other adverse effects

Other Information

- No studies have been found.
- None

Section 13: Disposal Considerations

Waste treatment methods

Product waste

- Waste of this product is NOT considered hazardous. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

Packaging waste

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

Section 14: Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN 2922	Corrosive liquids, toxic, N.O.S.	8	II	NDA
CANADA	UN 2922	Corrosive liquids, toxic, N.O.S.	8	II	NDA
IMDG	UN 2922	Corrosive liquids, toxic, N.O.S.	8	II	NDA
IATA/ICAO	UN 2922	Corrosive liquids, toxic, N.O.S.	8	II	NDA

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- None specified

IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

Section 15: Regulatory Information

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

SARA Hazard Classifications ● This product contains no chemicals which are listed or ranked by the Hazard Ranking System revised under SARA Title III

U.S. Federal Regulations

- US Toxic Substances Control Act:
 - Positive listing

- DSL (Domestic Substances List):
 - Positive listing

- SARA TITLE III (Superfund Amendments and Reauthorization Act):
 - Contains sulfuric acid and hydrofluoric acid

- 311/312 Hazard Categories:
 - Acute Health Hazard
 - Chronic Health Hazard

- 313 Reportable Ingredients:
 - Sulfuric acid: 6.08%
 - Hydrofluoric acid: 4.12%
 - Butoxy Ethanol: 2.01%

State Regulations

- California:
 - Warning! This product contains a chemical known to the State of California to cause cancer. (Sulfuric Acid)

Section 16: Other Information

Last Revision Date ● 05/11/2016

Preparation Date ● 05/14/2012

Disclaimer/Statement of Liability . The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance the need that information is current, applicable and suited to the circumstances of use. Korkay Cleaning Products assumes no responsibility for injury to vendee or third party person proximity caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Korkay Cleaning Products assumes no responsibility for injury by abnormal use of this material even if reasonable safety procedures are followed.

Key to abbreviations

NDA = No data available.
