



SOCAR CHEMICAL, LLC

**Safety Data Sheet
Flashback Wheel Cleaner & Red Mud Remover**

Version 1.0 • Date of issue: 2023-03-06

SECTION 1: Identification

GHS Product identifier

Product name Flashback Wheel Cleaner & Red Mud Remover

Recommended use of the chemical and restrictions on use

Rust & mud stain remover. For use in cleaning wheels and porous surfaces.

Supplier's details

Name	Socar Chemical, LLC
Address	2609 Rutherford Rd Greenville SC 29609 USA
Telephone	(864) 244-5068
email	cs@socarchemical.com

Emergency phone number

CHEMTREC 1(800) 424-9300
CCN695199

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal, Cat. 2
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, oral, Cat. 3
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1

GHS label elements, including precautionary statements

Pictograms



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Signal word

Danger

Hazard statement(s)

Toxic if swallowed
Fatal in contact with skin
Causes severe skin burns and eye damage
Causes serious eye damage
Toxic if inhaled

Precautionary statement(s)

Prevention Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Immediately call a POISON CENTER/doctor/... IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water/... IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/doctor/... Call a POISON CENTER/doctor/... Specific treatment (see ... on this label). Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container to

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
HYDROFLUORIC ACID (CAS no.: 7664-39-3; EC no.: 231-634-8; Index no.: 009-003-00-1)	>= 6 % (weight)
CLASSIFICATIONS: Acute toxicity, dermal, Cat. 1; Acute toxicity, inhalation, Cat. 2; Acute toxicity, oral, Cat. 2; Skin corrosion/irritation, Cat. 1A. HAZARDS: H300 - Fatal if swallowed; H310 - Fatal in contact with skin; H314 - Causes severe skin burns and eye damage; H330 - Fatal if inhaled. [SCLs/M-factors/ATEs]: Skin Corr. 1A; H314: C ≥ 7 %; Skin Corr. 1B; H314: 1 % ≤ C < 7 %; Eye Irrit. 2; H319: 0,1 % ≤ C < 1 %	
Phosphoric acid (CAS no.: 7664-38-2; EC no.: 231-633-2; Index no.: 015-011-00-6)	>= 6 % (weight)
CLASSIFICATIONS: Skin corrosion/irritation, Cat. 1B. HAZARDS: H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: Skin Corr. 1B; H314: C ≥ 25 %; Skin Irrit. 2; H315: 10 % ≤ C < 25 %; Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
Water (CAS no.: 7732-18-5; EC no.: 231-791-2)	>= 88 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

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If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For burns of large skin areas, (greater than 25 square inches), for ingestion and for significant inhalation exposure, severe systemic effects may occur. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia, and hyperkalemia. In some cases, renal dialysis may be indicated. For certain burns, especially of the digits, use of intra-arterial calcium gluconate may be indicated. For inhalation exposures treat as chemical pneumonia.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Sulfuric acid: No data available.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of in accordance with local and national regulations. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from aluminum and zinc.

SECTION 8: Exposure controls/personal protection

Control parameters

1. HYDROFLUORIC ACID (CAS: 7664-39-3)

TWA (Inhalation): 3 Peak limitation ppm; 2.6 Peak limitation mg/m³; Australia (AU/SWA)

2. Sulfuric acid (CAS: 7664-93-9 EC: 231-639-5)

PEL (Inhalation): 1 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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PEL (Inhalation): 0.1 mg/m³, (ST) 3 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 1 mg/m³; USA (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 1 mg/m³; USA (OSHA)

USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA (Inhalation): 1 mg/m³; Australia (AU/SWA)

STEL (Inhalation): 3 mg/m³; Australia (AU/SWA)

3. Phosphoric acid (CAS: 7664-38-2 EC: 231-633-2)

PEL (Inhalation): 1 mg/m³; USA (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1 mg/m³, (ST) 3 mg/m³; USA (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 1 mg/m³, (ST) 3 mg/m³; USA (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 1 mg/m³; Australia (AU/SWA)

STEL (Inhalation): 3 mg/m³; Australia (AU/SWA)

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state

Liquid

Appearance

Pink transparent liquid

Color

Bright Pink

Odor

Acidic

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Odor threshold	Not available
Melting point/freezing point	Not applicable
Boiling point or initial boiling point and boiling range	152 °F
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	1
Kinematic viscosity	<100 Centipoise
Solubility	100%
Partition coefficient n-octanol/water (log value)	Not applicable
Vapor pressure	Not available
Evaporation rate	<1
Density and/or relative density	Not available
Relative vapor density	Not available

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Sulfuric acid: Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, Reacts violently with: cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals

Phosphoric acid : Strong bases, Powdered metals

Hazardous decomposition products

Sulfuric acid: Hazardous decomposition products formed under fire conditions. - Sulphur oxides

Other decomposition products - No data available

In the event of fire: see section 5

Phosphoric acid : Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus

Other decomposition products - No data available

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

// ----- From the Suggestion report (03/06/2023, 8:10 PM) ----- //

The ATE (dermal) of the mixture is: 62.5 mg/kg bw

// ----- From the Suggestion report (03/06/2023, 8:10 PM) ----- //

The ATE (gas inhalation) of the mixture is: 1250 ppmV

// ----- From the Suggestion report (03/06/2023, 8:10 PM) ----- //

The ATE (oral) of the mixture is: 62.5 mg/kg bw

// ----- From the Suggestion report (03/07/2023, 1:57 PM) ----- //

The ATE (dermal) of the mixture is: 83.33 mg/kg bw

// ----- From the Suggestion report (03/07/2023, 1:57 PM) ----- //

The ATE (gas inhalation) of the mixture is: 1666.67 ppmV

// ----- From the Suggestion report (03/07/2023, 1:57 PM) ----- //

The ATE (oral) of the mixture is: 83.33 mg/kg bw

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Based on available data, classification data are not met

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

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No data available

Additional information

Sulfuric acid: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Treat small amounts by adding to an excess of water and neutralize with Disposal a lime slurry, limestone, soda ash or other alkali. Add water and neutralize cautiously as reaction is immediate and can be violent. Considerable amounts of harmful vapors may be released. Good ventilation is required. Dispose of residue (or slurry) by removal to an approved chemical waste landfill or by an approved waste contractor.

SECTION 14: Transport information

DOT (US)

UN Number: UN1790

Class: 8 (6.1)

Packing Group: II

Proper Shipping Name: Hydrofluoric acid, with not > 60% strength

Reportable quantity (RQ): 100

Marine pollutant: No

Poison inhalation hazard:

IMDG

UN Number: UN1790

Class: 8 (6.1)

Packing Group: II

EMS Number:

Proper Shipping Name: Hydrofluoric acid, with not > 60% strength

IATA

UN Number: UN1790

Class: 8 (6.1)

Packing Group: II

Proper Shipping Name: Hydrofluoric acid, with not > 60% strength

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Sulfuric acid

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CAS number: 7664-93-9

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)

Chemical name: Hydrofluoric acid

CAS: 7664-39-3

Chemical name: Sulfuric acid

CAS: 7664-93-9

Chemical name: Phosphoric acid

CAS: 7664-38-2

Chemical name: Water

CAS: 7732-18-5

Massachusetts Right To Know Components

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

Sulfuric acid

CAS number: 7664-93-9

Phosphoric acid

CAS number: 7664-38-2

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components

Common name: HYDROGEN FLUORIDE

CAS number: 7664-39-3

Sulfuric acid

CAS number: 7664-93-9

Phosphoric acid

CAS number: 7664-38-2

Water

CAS-No. 7732-18-5

Pennsylvania Right To Know Components

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

Sulfuric acid

CAS number: 7664-93-9

Phosphoric acid

CAS number: 7664-38-2

Water

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CAS-No. 7732-18-5

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

Sulfuric acid

CAS number: 7664-93-9

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

No SARA Hazards

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Sulfuric acid

CAS number: 7664-93-9

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

Flashback Wheel Cleaner & Red Mud Remover	
HEALTH	4
FLAMMABILITY	0
PHYSICAL HAZARD	3
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Date of last revision: March 2023

Further information/disclaimer

To the best of the knowledge of the preparer(s), the information contained herein is reliable and accurate as of this date. However, accuracy, suitability, or completeness is not guaranteed, and no warranties of any type - either express or implied are provided. The information contained herein relates only to this specific product.

Preparation information

SDS Prepared by: Andrew Snow