

**SECTION 1: PRODUCT IDENTIFICATION**

Product Name:	Motorcycle Charged Battery Electrolyte-Sulfuric Acid & Motorcycle Battery
Common Synonyms:	Sulfuric Acid
DOT Description:	Battery fluid acid
Chemical Family:	Acid, Corrosive
Date Issued:	January 04, 2020

SECTION 2: HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION**Hazards Identification:**

According to GHS

Corrosive to metals (Category 1)

Acute toxicity-Inhalation (Category 3)

Skin Corrosion/Irritation (Category 1)

Serious eye damage/eye irritation (Category 1)

Specific target organ toxicity-single exposure(Category 1) (respiratory system)

Specific target organ toxicity-repeated exposure(Category 1) (respiratory system)

Acute aquatic toxicity(Category 3)

The hazards not mentioned are not applicable or no data available.

Emergency overview:

May be corrosive to metals, Toxic if inhaled. Causes severe skin burns and eye damage. Causes damage to organs: respiratory system. Causes damage to organs through prolonged exposure: respiratory system. Harmful to aquatic life.

SECTION 3: INFORMATION ON INGREDIENTS

Product name: Battery Fluid, Acid(MOTOCYCLE BATTERY)

Ingredient	%(Optional)	CAS Number	EC NO.
Sodium sulfate	1%	7757-82-6	231-820-9
Sulfuric acid	35-40%	7664-93-9	231-639-5
Water(H ₂ O)	59-64%	7732-18-5	231-791-2

SECTION 4: FIRST-AID MEASURES**Skin Exposure:**

In case of skin contact, flush with copious amounts of water. Remove contaminated clothing and shoes. Call a physician

Eye Exposure:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.



SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media;

Suitable: Dry chemical, Water spray, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place. Keep containers cool by spraying with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapor, mist or gas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

Method for Cleaning up:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Environmental precaution:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 7: HANDLING AND STORAGE

Handling:

Wear appropriate protective clothing and gloves. Do not breathe vapor. Do not get in eyes, skin and clothing. Avoid formation of aerosols. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Bases, halides, organic materials. Carbides, fulminates. Nitrates. Picrates. Cyanides. Chlorates. Alkali halides, zinc salts, permanganate, hydrogen peroxide, azides, perchlorates. Nitromethane. Phosphorous. Reacts violently with cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous oxide. Powdered metals. Wash hands and face thoroughly after handling. No smoking at working site.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Incompatibilities: bases, halides organic material, carbides, fulminates, nitrates picrate, cyanides, chlorates, alkalis halides, zinc salts, permanganates. Hydrogen peroxide, azides, perchlorates. Nitromethane. Phosphorous. Reacts violently with : cyclopentadiene, cyclopentanone oxime. Nitroaryl amines, hexalithium disilicide, phosphorous oxide. Powdered metals.

SECTION 8: EXPOSURE CONTROL/PPE

Engineering Controls:

Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment:

Respiratory: Government approved respirator. Eye: Wear chemical safety goggles. Clothing: Wear Chemical-resistant protective clothing. Hand: Wear chemical-resistant protective gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES****Appearance:** Colorless transparent liquid**Odor:** Weak odor**Flash Point:** Not applicable
(Closed Cup)/ °C**Ph Value:** 0.8(25°C, 50.0g/L)**Solubility:** Miscible water**Density/Relative** 1.287*10⁻³ kg/M³(20.0°C)**Density:****Viscosity:** 2.101m²/s(20.0°C, kinematic viscosity)**SECTION 10: STABILITY AND REACTIVITY****Stability:**

Stable under normal temperature and pressures.

Material to Avoid:

Bases, Halides, Organic materials, Carbides, Fulminates, Nitrates, Picrates, Cyanides, Chlorates, Alkali halides, Zinc salts, permanganates, e.g. Potassium permanganate, hydrogen peroxide, Azides, Perchlorates, Nitro ethane, phosphorous, Reacts violently with: cyclopentadiene, cyclopentanene oxime. Aitrosryl emines, hexalithium disilicide, phosphorous oxide, powdered metals.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Sulphur oxides, sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute toxicity:**Sulphuric acid: Rat Oral LD10:2140mg/kg
 Rat Inhalation LC10: 510mg/2H**Skin corrosion/irritation:**

Causes severe skin burns.

Serious eye damage/irritation:

Causes severe eye damage

Specific target organ toxicity-single exposure:

Causes damage to organs: respiratory system

Specific target organ toxicity-repeated exposure:

Causes damage to organs through prolonged or exposure: respiratory system.

SECTION 12 ECOLOGICAL INFORMATION.**Toxicity:**

Sulfuric acid:

Toxicity to fish LC10-Ganbusia affinis (mosquito fish)-42mg/L-96H

LC10-lepomis macrochirus-4380mg/L-96h

Toxicity to daphnia and other aquatic invertebrates EC10-Daphnia magna(Water floa)-2564mg/L-48H

**Persistence and degradability:**

No data available.

Bio accumulative potential:

No data available.

Mobility in soil:

No data available.

SECTION 13 DISPOSAL CONSIDERATION**Appropriate Method of Disposal of Substance:**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulation.

SECTION 14 TRANSPORT INFORMATION

RID/ADR: Proper shipping Name: Sulphuric acid with not more than 51% acid

Hazard Class: 8

UN NO. UN2796

Packing Group:II

Exempt from ADR regulation – limited quantity

IATA: Proper shipping Name: Sulphuric acid with not more than 51% acid

Hazard Class: 8

UN NO. UN2796

Packing Group:II

IMO: Proper shipping Name: Sulphuric acid with not more than 51% acid

Hazard Class: 8

UN NO. UN2796

Packing Group:II

EnS No.: F-A, S-B

SECTION 15 REGULATORY INFORMATION

Regulation (BC) No. 1272/2008 and its amendments;

Corrosive to metals (Category 1)

Acute toxicity-Inhalation(Category 3)

Skin corrosion/irritation (Category 1)

Serious eye damage/eye irritation(Category 1)

Specific target organ toxicity-single exposure (Category 1) (respiratory system)

Specific target organ toxicity-repeated exposure(Category 1) (respiratory system)

SECTION 16 OTHER INFORMATION**Date:**

2021-01-04

Department:Shanghai Research Institute of Chemical Industry Testing Centre

Other Information:

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