

Material Safety Data Sheet According to Regulation (EC) No. 453/2010 Revision date: 25/03/2015 : MSDS – Motorcycle & Powersports Battery Acid Pack

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M1607, Block A3, Poly Tal To Wun Plaza, No.290 Hanxi Avenue, Panyu, uangzhou 511495, China. 1: +68 20 84758277 mail: technical@western-battery.com 4. Emergency tunber : +86 180 2245 6623 (09.00 – 18:00 Monday to Friday) ECTION 21 Hazard's Identification 1. Classification of the substance or mixture lassification according to Regulation (EC) No. 1272/2008 [CLP] cute Tox. 1 (Inhalation) H330 kin Corr. 1A H314 uil text of H-phrases: see section 16 lassification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Repr:Cat.1; R36 uil text of H-phrases: see section 16 deterse physicochemical, human health and environmental effects o additional information available 2. Label elements abelling according to Regulation (EC) No. 1272/2008 [CLP] azard pictograms (CLP) : Kaprica Silver Silv	1.3. De	tails of the supplier of the safety d	lata sheet
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o additional information available	2.3. Ot	her hazards	
			n on ingredients

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable



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3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	60	Not classified
Sulfuric acid	(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00- 8 (REACH-no) not available	40	C; R35
Name	Product identifier	Specific	concentration limits
Sulfuric acid	(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00- 8 (REACH-no) not available	(5 =< C < 1 (C >= 15) C	15) Xi;R36/38 C;R35
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	60	Not classified
Sulfuric acid	(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00- 8 (REACH-no) not available	40	Skin Corr. 1A, H314
Name	Product identifier	Specific	concentration limits
Sulfuric acid	(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00- 8 (REACH-no) not available	(5 =< C < 1	15) Eye Irrit. 2, H319 15) Skin Irrit. 2, H315 Skin Corr. 1A, H314

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures	3	
First-aid measures after inhalation	 If a battery ruptures, move to fresh air in case of accidental inhalation of mist. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately. 	
First-aid measures after skin contact	: Rinse immediately with plenty of water for 15 minutes. Remove contaminated clothing, including shoes, after flushing has begun. If a battery ruptures, do not rub or scratch exposed skin. Immediately call a POISON CENTER or doctor/physician.	
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If battery ruptures, do not rub or scratch exposed eye.	
First-aid measures after ingestion	: If solution of a battery chemicals have been swallowed and the person is conscious, give one glass of water. Do NOT induce vomiting. Vomiting may occur spontaneously. Never give anything by mouth to an unconscious person. Get immediate medical attention.	
4.2. Most important symptoms and e	ffects, both acute and delayed	
Symptoms/injuries after inhalation	: If a battery ruptures, may be harmful or fatal if inhaled in a confined area. May cause severe irritation and burns of the nose, throat and respiratory tract.	
Symptoms/injuries after skin contact	Direct contact with internal components of a battery can be severely irritating to the skin and may result in redness, swelling, burns and severe skin damage. Skin contact may aggravate an existing dermatitis condition. Skin contact may aggravate dermatitis.	
Symptoms/injuries after eye contact	 If a battery ruptures, direct contact with the liquid or exposure to vapours or mists may cause tearing, redness, swelling, corneal damage and irreversible eye damage. May cause severe burns. 	
Symptoms/injuries after ingestion	: Severe irritation or burns to the mouth, throat, oesophagus, and stomach. May be fatal if swallowed.	

Aspiration of this material may cause chemical pneumonia.

SECT	SECTION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable extinguishing media		: Use extinguishing media appropriate for surrounding fire. If a battery ruptures, use dry chemical, soda ash, lime, sand or carbon dioxide.	
Unsuitable extinguishing media		: None known.	
5.2.	Special hazards arising from the s	ubstance or mixture	
Fire hazard		: Sulfuric acid will not burn but can start fires with organic material, nitrates, carbides, chlorates, and metal powders.	



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Explosion hazard	: Reacts violently with water. It can react explosively with organic materials. Reacts with most metals to produce hydrogen gas, which can form an explosive mixture with air. Hydrogen may accumulate in containers, avoid ignition sources. Addition of water to acid causes heat and potentially explosive mixtures. Spill over into sewers may generate hydrogen gas or sulfides.
Hazardous decomposition products in case of fire	: Sulfur oxides.
5.3. Advice for firefighters	
Protective equipment for firefighters	: Use self-contained breathing apparatus and chemically protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Avoid contact with spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection.
Emergency procedures	: Evacuate area.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection.
Emergency procedures	: Evacuate unnecessary personnel.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containing	ent and cleaning up
For containment	: For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal.
Methods for cleaning up	: Small spills: collect all released material in a plastic lined metal container Take up liquid spill into absorbent material or Neutralize with sodium bicarbonate. Large spills: contain liquid using absorbent materila, by digging trenches. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Dispose in a safe manner in accordance with local/national regulations.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Protect from physical damage.
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist. Since emptied containers retain product residue, follow label warnings even after container is emptied. Non-static creating clothing and conductive shoes should be worn.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing prior to re- use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Store in a dry, cool and well-ventilated place. Keep away from heat and direct sunlight.
Incompatible products	: alkaline substances.
Special rules on packaging	: Store in original container or corrosive resistant and/or lined container.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	

Control parameters 8.1.

Sulfuric acid (7664-93-9)		
EU	IOELV TWA (mg/m³)	0,05 mg/m ³ (taking into account potential limitations and interferences which take place in the presence of other Sulphur compounds-mist)
Austria	MAK (mg/m³)	0,1 mg/m ³ (corresponds to 0.05 mg/m3 Thoracic- inhalable fraction)
Austria	MAK Short time value (mg/m ³)	0,2 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m³)	0,2 mg/m³



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Sulfuric acid (7664-93-	OEL TWA (mg/m ³)	0,05 mg/m ³ (When choosing a suitable method for
Bulgaria	OEL TWA (mg/m²)	monitoring exposure should take into account potentia constraints and interactions that may occur in the presence of other sulfur compounds-respirable
Croatia	C)/L (granižna vrijadnost izložanosti) (mg/m ³)	aerosol)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³) OEL TWA (mg/m ³)	0,05 mg/m ³ 0,05 mg/m ³ (vapor)
Cyprus Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Czech Republic		0,05 mg/m ³ (concentrated-mist)
Denmark	Grænseværdie (langvarig) (mg/m³)	0,05 mg/m ³ (thoracic fraction-mist)
Estonia	OEL TWA (mg/m³)	1 mg/m³ (fume)
Finland	HTP-arvo (8h) (mg/m³)	0,05 mg/m³
Finland	HTP-arvo (15 min)	0,1 mg/m³
France	VME (mg/m³)	0,05 mg/m ³ (thoracic fraction)
France	VLE (mg/m ³)	3 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	0,1 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Gibraltar	OEL TWA (mg/m³)	0,05 mg/m ³ (when selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise i the presence of other sulphur compounds-thoracic fraction)
Greece	OEL TWA (mg/m³)	0,05 mg/m ³ (mist)
Hungary	AK-érték	0,05 mg/m³
Ireland	OEL (8 hours ref) (ppm)	0,05 ppm
Ireland	OEL (15 min ref) (ppm)	0,15 ppm (calculated)
Italy	OEL TWA (mg/m³)	0,05 mg/m ³ (When choosing a suitable method for monitoring exposure should take into account potentia constraints and interactions that may occur in the presence of other sulfur compounds, respirable fraction-thoracic fraction, mist)
Latvia	OEL TWA (mg/m³)	0,05 mg/m ³ (choosing an appropriate exposure monitoring method, there should be taken into account the possible limitations and the impact that may resul from the presence of other sulfur components-fog, which is defined as the thoracic fraction)
Lithuania	IPRV (mg/m ³)	0,05 mg/m ³ (vapor)
Lithuania	TPRV (mg/m ³)	3 mg/m ³ (fog-vapor)
Luxembourg	OEL TWA (mg/m³)	0,05 mg/m ³
Malta	OEL TWA (mg/m ³)	0,05 mg/m ³ (mist)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,05 mg/m ³ (defined as thoracic fraction-mist)
Poland	NDS (mg/m ³)	0,05 mg/m ³ (thoracic fraction)
Portugal	OEL TWA (mg/m ³)	0,05 mg/m ³ (thoracic fraction-mist)
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,05 mg/m ³ (inhalable fraction, fog)
Spain	VLA-ED (mg/m³)	0,05 mg/m ³ (indicative limit value; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound; limitations and interferences can arise from other Sulfur compounds-mist)
Sweden	nivågränsvärde (NVG) (mg/m³)	0,1 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	0,2 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	0,05 mg/m ³ (mist)
Norway	Gjennomsnittsverdier (AN) (mg/m³)	0,1 mg/m ³ (inhalable fraction)
	Gjennomsnittsverdier (Korttidsverdi) (mg/m3)	0,3 mg/m ³ (inhalable fraction)
Norway		
Norway Switzerland	VME (mg/m ³)	0,1 mg/m ³ (inhalable)



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Sulfuric acid (7664-93-9)		
Australia	TWA (mg/m³)	1 mg/m ³
Australia	STEL (mg/m ³)	3 mg/m ³
Canada (Quebec)	VECD (mg/m³)	3 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m³)	0,2 mg/m ³ (thoracic fraction)
USA - IDLH	US IDLH (mg/m³)	15 mg/m³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m³
USA - OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³

8.2. **Exposure controls**

Appropriate engineering controls

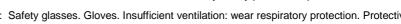
- : Mechanical ventilation is recommended. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- : Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection. Protective clothing.
- Personal protective equipment Materials for protective clothing

Hand protection

Eye protection

Skin and body protection

Respiratory protection



- : Plastic apron or overall. neoprene/natural rubber
- : Wear suitable gloves tested to EN374. Use neoprene gloves
- : Chemical goggles or face shield with safety glasses. DIN EN 166
- : Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water.
- : In case of insufficient ventilation, wear suitable respiratory equipment. half-mask with filter according to EN 149.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear. liquid.
Colour	: transparent.
Odour	: penetrating. Sharp. pungent.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: <1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 95 - 95,5 °C
Flash point	: Non-flammable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 10 mm Hg
Relative vapour density at 20 °C	: >1
Relative density	: No data available
Density	: 1,215 - 1,35 g/m³
Solubility	: Soluble in water. Water: 100 %
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	



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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Mechanical impact. Heat sources.

10.5. Incompatible materials

alkali. metals. Combustible materials. Organic materials. Oxidising agents. amines. Bases. Chlorates. iron. Nitrates. Perchlorates. Permanganates. Phosphorus. Steel. zinc. Peroxides. cyanides. nitromethane. Benzene.

10.6. Hazardous decomposition products

carbon oxides. Sulphur oxides. Toxic and irritating gases are released following thermal decomposition or combustion.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Inhalation: Fatal if inhaled.	
Sulfuric Acid-		
LD50 oral rat	2140 mg/kg bodyweight	
LC50 inhalation rat (mg/l)	510 mg/m ³	
ATE CLP (vapours)	0,050 mg/l/4h	
ATE CLP (dust,mist)	0,005 mg/l/4h	
Sulfuric acid (7664-93-9)		
LD50 oral rat	2140 mg/kg	
LC50 inhalation rat (mg/l)	510 mg/m ³ (Exposure time: 2 h)	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Serious eye damage, category 1, implicit	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
SECTION 12: Ecological information		
12.1. Toxicity		
Sulfuric acid (7664-93-9)		
LC50 fish 1	82 mg/l (Exposure time:24 h - Species: Brachydanio rerio [static])	
12.2. Persistence and degradability		
Sulfuric Acid-		
Persistence and degradability	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are more Toxic.	
12.3. Bioaccumulative potential		
Sulfuric acid (7664-93-9)		
BCF fish 1	(no bioaccumulation)	
12.4. Mobility in soil		

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available



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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste)	: Dispose of contents/container to comply with applicable local, national and international regulations.	
Waste treatment methods	: Recycling the product is recommended. Waste must be disposed of in accordance with federal state, and local environmental control regulations.	
Waste disposal recommendations	: Consult the appropriate local waste disposal expert about waste disposal Since emptied containers retain product residue, follow label warnings even after container is emptied.	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 2796
UN-No. (IMDG)	: 2796
UN-No.(IATA)	: 2796
UN-No.(ADN)	: 2796
UN-No. (RID)	: 2796
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: SULPHURIC ACID / BATTERY FLUID, ACID
Proper Shipping Name (IMDG)	: SULPHURIC ACID
Proper Shipping Name (IATA)	: Sulphuric acid
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 2796 SULPHURIC ACID / BATTERY FLUID, ACID, 8, II, (E)
Transport document description (ADR) (IMDG)	: UN 2796 SULPHURIC ACID, 8, II
14.3. Transport hazard class(es)	

ADR
Transport hazard class(es) (ADR)
Danger labels (ADR)



: 8 : 8

IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

ΙΑΤΑ

Transport hazard class(es) (IATA) Hazard labels (IATA)





:8 :8





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Transport hazard class(es) (ADN) : Not applicable RID : Transport hazard class(es) (RID) : 8 Danger labels (RID) : 8 :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
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Transport hazard class(es) (RID) : 8 Danger labels (RID) : 8 Image labels (RID) : Image labels (RID) Packing group (ADR) : Not applicable Packing group (RID) : Not applicable Packing group (RID) : No Marine politant : No Other information : No supplementary information available Imited quantities (ADR) : C1
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Transport category (ADR) : 2 Hazard identification number (Kemler No.) : 80 Orange plates :
Hazard identification number (Kemler No.) : 80
80
2706
2796
Tunnel restriction code (ADR) : E
EAC code : 2R
14.6.2. Transport by sea
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
IBC special provisions (IMDG) : B20
Tank instructions (IMDG) : T8
Tank special provisions (IMDG) : TP2
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : B
Properties and observations (IMDG) : Colourless liquid, mixture not exceeding 1.405 relative density. Highly corrosive to most
metals. Causes burns to skin, eyes and mucous membranes.
MFAG-No : 157



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14.6.3. Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
ERG code (IATA)	: 8L
14.6.4. Inland waterway transport	
Not subject to ADN	: No
14.6.5. Rail transport	
· · · · · · · · · · · · · · · · · · ·	. N.
Carriage prohibited (RID)	: No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Sulfuric Acid- is not on the REACH Candidate List Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Water hazard class (WGK)

: 3 - severe hazard to waters

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) Category 1	
Skin Corr. 1A	. 1A Skin corrosion/irritation Category 1A	
H314	Causes severe skin burns and eye damage	
H330	Fatal if inhaled	
R35	Causes severe burns	
С	Corrosive	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product