## **SAFETY DATA SHEET**



1. Identification

Product identifier Husqvarna 2-Stroke XP Oil

Other means of identification

**Product code** 610000130, 585247801, 505525901, 585247802, 610000131, 610000132, 585451401,

610000133, 610000166, 610000134, 544106101, 544106102, 544106103, (Not all part numbers

are available in all markets.)

**Recommended use**2-stroke engines **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information
Supplier Husqvarna Group

Address 9335 Harris Corners Parkway

Charlotte, NC 28269

USA

Telephone number 800-487-5951

**Emergency telephone** +1-760-476-3961 (Access code 333721)

number

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** May cause an allergic skin reaction.

Precautionary statement

Prevention Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the

workplace. Wear protective gloves.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	CAS number	%
Solvent-dewaxed heavy paraffinic distillates (petroleum)	64742-65-0	30 - 50
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	15 - 30
Polyisobutylene	9003-29-6	10 - 25

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Distillates (petroleum), hydrotreated light	64742-47-8	10 - 20
N,N'-di-sec-butyl-p-phenylened iamine	101-96-2	0.1 - 0.5

All concentrations are in percent by weight (kg) unless ingredient is a gas. Gas concentrations are in percent by volume (I).

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders. Seek medical attention and take along these instructions.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Get medical attention if

symptoms occur.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Powder. Alcohol resistant foam. Dry chemicals. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Use standard firefighting procedures and consider the hazards of other involved materials.

Material will burn in a fire.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# Environmental precautions

7. Handling and storage Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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## 8. Exposure controls/personal protection

#### Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
Petroleum distillates, hydrotreated heavy paraffinic (CAS 64742-54-7)	PEL	5 mg/m3	Mist.	
Solvent-dewaxed heavy paraffinic distillates (petroleum) (CAS 64742-65-0)	PEL	5 mg/m3	Mist.	
,		2000 mg/m3		
		500 ppm		

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Petroleum distillates, hydrotreated heavy	TWA	5 mg/m3	Inhalable fraction.
paraffinic (CAS 64742-54-7)			

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
Petroleum distillates, hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Solvent-dewaxed heavy paraffinic distillates (petroleum) (CAS 64742-65-0)	Ceiling	1800 mg/m3	
,	STEL	10 mg/m3	Mist.

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Wear appropriate chemical resistant clothing. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Viscous. **Form** Dark blue. Color Hydrocarbon. Odor **Odor threshold** Not available.

Husqvarna 2-Stroke XP Oil SDS US pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

209.9 °F (98.8 °C)

Flash point **Evaporation rate** < 1 (Air=1) Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

< 1 mm Hg at 20 °C Vapor pressure

Vapor density > 1 (Air=1)

Relative density 0.87 (60.08 °F (15.6 °C))

Solubility(ies)

Solubility (water) Negligible. **Partition coefficient** Not available.

(n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

7.22 lbs/gal Density Not explosive. **Explosive properties** 

Kinematic viscosity 7.5 mm<sup>2</sup>/s (212 °F (100 °C))

45 mm<sup>2</sup>/s (104 °F (40 °C))

**Oxidizing properties** Not oxidizing.

VOC (Weight %) 153 g/l

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Skin contact May cause an allergic skin reaction.

Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion May cause irritation of the gastrointestinal tract.

Symptoms related to the physical, chemical and toxicological characteristics May cause an allergic skin reaction. Dermatitis. Rash.

## Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

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Skin corrosion/irritation

Serious eye damage/eye

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

No data is available on the degradability of this product.

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

No data available.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

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## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

N,N'-di-sec-butyl-p-phenylenediamine (CAS 101-96-2)

Petroleum distillates, hydrotreated heavy paraffinic (CAS 64742-54-7)

Solvent-dewaxed heavy paraffinic distillates (petroleum) (CAS 64742-65-0)

### US. New Jersey Worker and Community Right-to-Know Act

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Petroleum distillates, hydrotreated heavy paraffinic (CAS 64742-54-7)

Solvent-dewaxed heavy paraffinic distillates (petroleum) (CAS 64742-65-0)

## US. Pennsylvania Worker and Community Right-to-Know Law

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

N,N'-di-sec-butyl-p-phenylenediamine (CAS 101-96-2)

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Petroleum distillates, hydrotreated heavy paraffinic (CAS 64742-54-7)

### **US. Rhode Island RTK**

Not regulated.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
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Country(s) or region Inventory name On inventory (yes/no)\* Japan Inventory of Existing and New Chemical Substances (ENCS) Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

## 16. Other information, including date of preparation or last revision

06-July-2015 Issue date

**Revision date** Version # 01

Health: 1\* HMIS® ratings

Flammability: 1 Physical hazard: 0

**NFPA** ratings



Disclaimer

Husqvarna Group cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Husqvarna 2-Stroke XP Oil SDS US 7/7

# SAFETY DATA SHEET

Issuing Date 08-Jan-2018

Revision Date 08-Jan-2018

**Revision Number** 0

NGHS / English



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## 1. IDENTIFICATION

Product identifier

Product Name Battery Acid

Other means of identification

Product Code(s) 1174703

Recommended use of the chemical and restrictions on use

Recommended Use Acid

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification East Penn Mfg.

Address Deka Rd

Lyon Station PA

19536 US

Telephone Phone:610-682-6361

Fax:610-682-1650

E-mail mgriffith@dekabatteries.com

Emergency telephone number

**Company Emergency Phone** 

Number

610-682-6361

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A



This is a battery. In case of rupture: the above hazards exist.

Appearance Clear, colorless

Physical state Liquid

**Odor** Odorless

## GHS Label elements, including precautionary statements

#### Danger

#### **Hazard statements**

Toxic if inhaled Causes severe skin burns and eye damage May cause cancer



## **Precautionary Statements - Prevention**

Obtain special instructions before use

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

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dusts or mists

Wash face, hands and any exposed skin thoroughly after handling

#### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

Immediately call a POISON CENTER or doctor

#### Eye

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 or doctor

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

## Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

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

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

May be harmful if swallowed.

## Unknown acute toxicity 43 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

43 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity



43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Substance</u>

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sulfuric acid	7664-93-9	43	-	-

## 4. FIRST AID MEASURES

First aid measures

General advice First aid is upon rupture of sealed battery. Immediate medical attention is required. Show

this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical

advice/attention.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention. Immediate medical attention is required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical

advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist. Use personal

protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.



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Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapors.

Hazardous Combustion Products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not breathe vapor or mist.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling In case of rupture: Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse. Do not breathe vapor or mist.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from



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moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits

Chemical name	ACGIH T	LV	0:	SHA PEL		NIOSH IDLH
Sulfuric acid	TWA: 0.2 mg/m	<sup>3</sup> thoracic	TW	A: 1 mg/m <sup>3</sup>		IDLH: 15 mg/m <sup>3</sup>
7664-93-9	particulate r	natter	(vacated	) TWA: 1 mg/m³		TWA: 1 mg/m <sup>3</sup>
Chemical name	Alberta	British C	Columbia	Ontario TWAE	.V	Quebec
Sulfuric acid	TWA: 1 mg/m <sup>3</sup>	TWA: 0.	2 mg/m <sup>3</sup>	TWA: 0.2 mg/n	n³	TWA: 1 mg/m <sup>3</sup>
7664-93-9	STEL: 3 mg/m <sup>3</sup>		-			STEL: 3 mg/m <sup>3</sup>

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe

vapor or mist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties** 

Physical state Liquid

Appearance Clear, colorless

**Odor** Odorless

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pH

Melting / freezing point No data available None known



**Boiling point / boiling range** 116 °C / 241 °F **Flash Point** 5001 C / 9034 F

Evaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 1.25

Water Solubility Completely soluble

Solubility(ies) No data available None known

Partition coefficient: n-octanol/waterNot applicableAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

**Explosive properties** No information available Oxidizing properties No information available No information available Softening Point **Molecular Weight** No information available No information available VOC Content (%) **Liquid Density** No information available **Bulk Density** No information available Particle Size No information available **Particle Size Distribution** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materials Acids. Bases. Oxidizing agent.

Hazardous Decomposition Products Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

In case of rupture:

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.



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Pulmonary edema can be fatal. Toxic by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

#### Information on toxicological effects

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in

breathing.

#### Numerical measures of toxicity

### **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 4,977.00 mg/kg ATEmix (inhalation-dust/mist) 0.59 mg/L

#### Unknown acute toxicity

43 % of the mixture consists of ingredient(s) of unknown toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 43 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid	= 2140 mg/kg (Rat)	-	= 510 mg/m³(Rat)2 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Classification based on data available for ingredients. Contains a known or suspected

carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sulfuric acid	A2	Group 1	Known	X
7664-93-9				



Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

No information available. Reproductive toxicity

STOT - single exposure No information available.

STOT - repeated exposure No information available.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated. **Ecotoxicity** 

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sulfuric acid	-	96h LC50: > 500 mg/L (Brachydanio rerio)	-	24h EC50: = 29 mg/L

Persistence and Degradability No information available.

Bioaccumulation There is no data for this product.

Mobility No information available.

No information available. Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

**US EPA Waste Number** D002

791 **California Waste Codes** 

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste	
Sulfuric acid	Toxic	
7664-93-9	Corrosive	



## 14. TRANSPORT INFORMATION

DOT

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class

Packing Group

**Description** UN2796, BATTERY FLUID, ACID, 8, II

**Emergency Response Guide** 157

Number

TDG

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group

**Description** UN2796, BATTERY FLUID, ACID, 8, II

**MEX** 

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group

**Description** UN2796, BATTERY FLUID, ACID, 8, II

<u>ICAO</u>

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group ||

**Description** UN2796, BATTERY FLUID, ACID, 8, II

IATA

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group II
ERG Code 8L

**Description** UN2796, BATTERY FLUID, ACID, 8, II

IMDG/IMO

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group II
EmS-No. F-A, S-B

**Description** UN2796, BATTERY FLUID, ACID, 8, II

RID

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group || Classification code C1

**Description** UN2796, BATTERY FLUID, ACID, 8, II

ADR/RID-Labels 8

ADR

**UN-No.** UN2796



Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group || Classification code C1
Tunnel restriction code (E)

**Description** UN2796, BATTERY FLUID, ACID, 8, II, (E)

ADN

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group || Classification code C1

**Description** UN2796, BATTERY FLUID, ACID, 8, II

Hazard Labels 8 Limited Quantity 1 L

## 15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

**International Inventories** 

TSCA

DSL/NDSL

Contact supplier for inventory compliance status.

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Sulfuric acid - 7664-93-9	7664-93-9	43	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate



classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid 7664-93-9	1000 lb			Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

### **US State Regulations**

### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Sulfuric acid - 7664-93-9	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusett s	Pennsylvania	Rhode Island	Illinois
Sulfuric acid 7664-93-9	Х	Х	Х	Х	Х

		3			
Sulfuric acid 7664-93-9	X	X	X	X	Х

16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 **Physical and Chemical** 

Properties -

Health hazards 0 Flammability 0 Physical hazards 0 HMIS Personal Protection X

Product Stewardship **Prepared By** 

23 British American Blvd. Latham, NY 12110 1-800-572-6501

08-Jan-2018

**Issuing Date** 08-Jan-2018

**Revision Note** No information available

#### Disclaimer

**Revision Date** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific



material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

Issuing Date 08-Jan-2018

Revision Date 08-Jan-2018

**Revision Number** 0

NGHS / English



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

## 1. IDENTIFICATION

Product identifier

Product Name Battery Acid

Other means of identification

Product Code(s) 1174703

Recommended use of the chemical and restrictions on use

Recommended Use Acid

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification East Penn Mfg.

Address Deka Rd

Lyon Station

PA 19536 US

Telephone Phone:610-682-6361

Fax:610-682-1650

E-mail mgriffith@dekabatteries.com

Emergency telephone number

**Company Emergency Phone** 

**Number** 

610-682-6361

## 2. HAZARDS IDENTIFICATION

#### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A



This is a battery. In case of rupture: the above hazards exist.

Appearance Clear, colorless

Physical state Liquid

**Odor** Odorless

## GHS Label elements, including precautionary statements

#### Danger

#### **Hazard statements**

Toxic if inhaled Causes severe skin burns and eye damage May cause cancer



## **Precautionary Statements - Prevention**

Obtain special instructions before use

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

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dusts or mists

Wash face, hands and any exposed skin thoroughly after handling

#### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

Immediately call a POISON CENTER or doctor

#### Eye

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 or doctor

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

## Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

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

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

May be harmful if swallowed.

## Unknown acute toxicity 43 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

43 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity



43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Substance</u>

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sulfuric acid	7664-93-9	43	-	-

## 4. FIRST AID MEASURES

First aid measures

General advice First aid is upon rupture of sealed battery. Immediate medical attention is required. Show

this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical

advice/attention.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention. Immediate medical attention is required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical

advice/attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist. Use personal

protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.



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Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapors.

Hazardous Combustion Products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not breathe vapor or mist.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling In case of rupture: Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse. Do not breathe vapor or mist.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from



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moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits

Chemical name	ACGIH 1	LV	0:	SHA PEL	NIOSH IDLH	
Sulfuric acid	TWA: 0.2 mg/m	TWA: 0.2 mg/m³ thoracic		noracic TWA: 1 mg/m <sup>3</sup>		
7664-93-9	particulate	matter	(vacated	) TWA: 1 mg/m³	TWA: 1 mg/m <sup>3</sup>	
Chemical name	Alberta	British C	Columbia	Ontario TWAE	EV Quebec	
Sulfuric acid	TWA: 1 mg/m <sup>3</sup>	TWA: 0.	.2 mg/m <sup>3</sup>	TWA: 0.2 mg/n	m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	
7664-93-9	STEL: 3 mg/m <sup>3</sup>		-		STEL: 3 mg/m <sup>3</sup>	

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe

vapor or mist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties** 

Physical state Liquid

Appearance Clear, colorless

**Odor** Odorless

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pH

Melting / freezing point No data available None known



**Boiling point / boiling range** 116 °C / 241 °F **Flash Point** 5001 C / 9034 F

Evaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 1.25

Water Solubility Completely soluble

Solubility(ies) No data available None known

Partition coefficient: n-octanol/waterNot applicableAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

**Explosive properties** No information available Oxidizing properties No information available No information available Softening Point **Molecular Weight** No information available No information available VOC Content (%) **Liquid Density** No information available **Bulk Density** No information available Particle Size No information available **Particle Size Distribution** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materials Acids. Bases. Oxidizing agent.

Hazardous Decomposition Products Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

In case of rupture:

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.



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Pulmonary edema can be fatal. Toxic by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

#### Information on toxicological effects

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in

breathing.

#### Numerical measures of toxicity

### **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 4,977.00 mg/kg ATEmix (inhalation-dust/mist) 0.59 mg/L

#### Unknown acute toxicity

43 % of the mixture consists of ingredient(s) of unknown toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 43 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid	= 2140 mg/kg (Rat)	-	= 510 mg/m³(Rat)2 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Classification based on data available for ingredients. Contains a known or suspected

carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sulfuric acid	A2	Group 1	Known	X
7664-93-9				



Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

No information available. Reproductive toxicity

STOT - single exposure No information available.

STOT - repeated exposure No information available.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated. **Ecotoxicity** 

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sulfuric acid	-	96h LC50: > 500 mg/L (Brachydanio rerio)	-	24h EC50: = 29 mg/L

Persistence and Degradability No information available.

Bioaccumulation There is no data for this product.

Mobility No information available.

No information available. Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

**US EPA Waste Number** D002

791 **California Waste Codes** 

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste	
Sulfuric acid	Toxic	
7664-93-9	Corrosive	



## 14. TRANSPORT INFORMATION

DOT

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class

Packing Group

**Description** UN2796, BATTERY FLUID, ACID, 8, II

**Emergency Response Guide** 157

Number

TDG

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group

**Description** UN2796, BATTERY FLUID, ACID, 8, II

**MEX** 

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group

**Description** UN2796, BATTERY FLUID, ACID, 8, II

<u>ICAO</u>

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group ||

**Description** UN2796, BATTERY FLUID, ACID, 8, II

<u>IATA</u>

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group II
ERG Code 8L

**Description** UN2796, BATTERY FLUID, ACID, 8, II

IMDG/IMO

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group II
EmS-No. F-A, S-B

**Description** UN2796, BATTERY FLUID, ACID, 8, II

RID

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group || Classification code C1

**Description** UN2796, BATTERY FLUID, ACID, 8, II

ADR/RID-Labels 8

ADR

**UN-No.** UN2796



Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group || Classification code C1
Tunnel restriction code (E)

**Description** UN2796, BATTERY FLUID, ACID, 8, II, (E)

ADN

**UN-No.** UN2796

Proper Shipping Name BATTERY FLUID, ACID

Hazard Class 8
Packing Group || Classification code C1

**Description** UN2796, BATTERY FLUID, ACID, 8, II

Hazard Labels 8 Limited Quantity 1 L

## 15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

**International Inventories** 

TSCA

DSL/NDSL

Contact supplier for inventory compliance status.

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Sulfuric acid - 7664-93-9	7664-93-9	43	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate



classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid 7664-93-9	1000 lb			Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

### **US State Regulations**

### California Proposition 65

This product contains the following Proposition 65 chemicals.

	Chemical name	California Proposition 65
5	Sulfuric acid - 7664-93-9	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusett s	Pennsylvania	Rhode Island	Illinois
Sulfuric acid 7664-93-9	Х	Х	Х	Х	Х

		3			
Sulfuric acid 7664-93-9	X	X	X	X	Х

16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 **Physical and Chemical** 

Properties -

Health hazards 0 Flammability 0 Physical hazards 0 HMIS Personal Protection X

Product Stewardship **Prepared By** 

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**Revision Note** No information available

#### Disclaimer

**Revision Date** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific



material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 

