

Sulfonion® Plus

(Linear alkyl benzene sulfonic acid)

Lion Corporation (Thailand) Ltd.

Safety Data Sheet

Revision No.: 6 Issues date: 15/11/2022

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE OF MIXTURE AND OF THE SUPPLIER

Product identifier used on the label :

Product name	Sulfonion® Plus
Recommended use	Shake well before use

Detail of the supplier :

Company name	Lion Corporation (Thailand) Ltd.
Address	Head Office: 666 Rama 3 Rd., Bangpongpan, Yannawa, Bangkok 10120 Thailand Factory: 602 Moo 11 Sukhapiban 8 Rd., Nongkham, Sriracha, Chonburi 20230 Thailand
Telephone	+66 (2)294 0191 ext. 283
Fax	Not available
Website	www.lion.co.th
Email	Info_cb@lion.co.th
Emergency telephone number :	+66(2) 294-1783

SECTION 2 - HAZARDS IDENTIFICATION

GHS classification of the substance / mixture

Metal corrosion	Category 1
Acute oral toxicity	Category 4
Acute inhalation toxicity	Category 4
Skin corrosion / irritation	Category 2
Serious eye damage/eye irritation	Category 1
Acute aquatic hazard	Category 1

GHS label elements :

Pictogram



Signal Word :

Danger



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Hazard statements :

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Precautionary statements prevention :

P234	Keep Only in original container.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly with water and soap after handling.
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements response :

P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you fell unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage. Hazardous to the aquatic environment.

Precautionary statements storage :

P406	Store in corrosive resistant/container with a resistant inner liner.
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Precautionary statements disposal :

P501	Dispose of contents/container to hazardous waste collection point.
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SECTION 3 - COMPOSITION AND INGREDIENTS

<u>CAS No.</u>	<u>Concentration %</u>	<u>Components</u>
68584-22-5	96.5 %	Benzenesulphonic acid, C10-16-alkyl derives.
7664-93-9	1.3 %	Sulfuric acid
68648-87-3	1.5 %	Benzene, C10-16-alkyl derives.



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SECTION 4 - FIRST AID MEASURES

Description of first aid measures:

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
Inhalation	Move victim to fresh air. If not breathing, give artificial respiration and consult a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Most important symptoms:

Acute effects	Irritating to eyes, skin. May cause damage to respiratory system asthmatic symptoms or breathing difficulties.
Delayed effects	No data available

Indication of any immediate medical attention and special treatment needed :

Treat symptomatically

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media :

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substrate or mixture:

Combustion produces carbon dioxide, carbon monoxide and oxides of Sulfur. When heated to decomposition, toxic fumes of SO₂ and SO₃ are emitted.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus for firefighting.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :

Use personal protective equipment.
Ensure adequate ventilation.
Avoid contact with skin, eyes and clothing.

Environmental precautions :

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up :

Remove all ignition sources. Contain released product, pump into suitable containers. Clean contaminated surfaces with an excess of water. Carefully collect the spill. Wash clothing and equipment after handling

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SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling :	Keep away from naked sources of ignition or heat Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin or on clothing. Avoid inhalation.
Conditions for safe storage, including any incompatibilities :	Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Control parameters :	No data available
Appropriate engineering controls :	Use ventilation, local exhaust

Personal protection :



Eye and face protection	Wear appropriate protective eyeglasses or chemical safety goggles
Skin protection	Long sleeved clothing.
Respiratory protection	None required, when adequate ventilation is available. If airborne concentration is high, use a mask or respirator.
Body Protection	Chemical suit
Work / Hygienic Practices :	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties :

Appearance and Color :	Brown viscous liquid
Odour :	Product specific
Odour threshold :	No data available
pH (1% Sol.) :	1.0 - 3.0
Melting point / freezing point (°C) :	No data available
Initial boiling point (°C) :	N.D.
Flash point (°C) :	>185.0
Pour point (°C) :	-18
Evaporation rate :	No data available
Flammability :	No data available
Lower explosion limit (%) :	None



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Upper explosive limit (%) :	None
Vapour pressure (kPa) :	No data available
Relative Vapour density (Air = 1) :	No data available
Relative density (Water = 1) :	No data available
Solubility (g/l) :	Readily soluble
Partition coefficient: noctanol/water log Pow :	No data available
Auto ignition temperature :	No data available
Decomposition temperature :	No data available
Viscosity (at 30 °C) :	800 – 2,000

SECTION 10 - STABILITY AND REACTIVITY

Reactivity :	No data available
Chemical stability :	Stable under recommended storage conditions.
Possibility of hazardous reactions :	Will not occur
Conditions to avoid :	Extremes of temperature, high humidity and direct sunlight.
Incompatible materials :	Acids, Alkalines, Caustics, Halogens, Reactive chemicals
Hazardous decomposition products :	Sulfur dioxide, Sulfur trioxide

SECTION 11 - TOXICOLOGICAL INFORMATION

Classification of Physical Hazards :

Corrosive to metals May be Corrosive to metals

Classification of Health Hazards :

Acute oral toxicity	Harmful if swallowed.
Information on product	Rat, LD50 : 1513 mg/kg (Calculate from data on similar product)
Information on ingredients	Benzenesulphonic acid, C10-16-alkyl derives : Category 4
Acute dermal toxicity	Classification not possible.
Acute inhalation toxicity	Harmful if inhaled.
Information on product	Rat, LC50 : 2.67 mg/l ,4 Hr. (Calculate from data on similar product)
Information on ingredients	Benzene, C10-16-alkyl derivatives : Category 4
Skin corrosion / irritation	Causes skin irritation.
Information on product	Estimate from data on similar product
Information on ingredients	Benzenesulphonic acid, C10-16-alkyl derives : Category 2
	Sulfuric acid : Category 2
Serious eye damage/eye irritation	Causes serious eye damage.
Information on product	Estimate from data on similar product
Information on ingredients	Benzenesulphonic acid, C10-16-alkyl derives : Category 1
	Sulfuric acid : Category 2
Respiratory or skin sensitization	Classification not possible.
Germ cell mutagenicity	Classification not possible.
Carcinogenicity	Classification not possible.
Reproductive toxicity	Classification not possible.



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Specific target organ toxicity - single exposure	Classification not possible.
Specific target organ toxicity - repeated exposure	Classification not possible.
Aspiration hazard	Classification not possible.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity :

Acute aquatic hazard
Information on product

Very toxic to aquatic life.
Brown Trout (*Salmo trutta*), LC50 < 1 mg/l, 96 Hr.(Calculate from data on similar product)

Information on ingredients
Long-term aquatic hazard

Benzenesulphonic acid, C10-16-alkyl derives : Category 1
Classification not possible.

Biodegradability : 83% (28 d, OECD 301D : 1992 : CLOSED BOTTLETEST)

Persistence and degradability : No data available.

Bioaccumulative potential : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods : Dispose in accordance with all applicable regulations.

Contaminated packaging : Dispose of product in the bin.

SECTION 14 - TRANSPORT INFORMATION

Land transport (ADR):

UN number	2586
Packing group	III
UN proper shipping name	ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulfuric acid
Transport hazard class(es)	Class : 8 Subrisk : Not Applicable
Environmental hazards	Not regulated
Special precautions for user	Special provisions : Not Applicable Limited quantity : 5 L

Air transport (ICAO-IATA / DGR):

UN number	2586
Packing group	III
UN proper shipping name	Alkylsulphonic acids, liquid with 5% or less free sulfuric acid; Arylsulphonic acids, liquid with 5% or less free sulfuric acid



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Transport hazard class(es)	ICAO/IATA Class :	8
	ICAO / IATA Subrisk :	Not Applicable
	ERG Code:	8L
Environmental hazards	Not regulated	
Special precautions for user	Special provisions:	A803
	Cargo Only Packing Instructions:	856
	Cargo Only Maximum Qty / Pack	60L
	Passenger and Cargo Packing Instructions	852
	Passenger and Cargo Maximum Qty / Pack	5 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y841
	Passenger and Cargo Limited Maximum Qty / Pack	1 L
Sea transport (IMDG-Code / GGVSee):		
UN number	2586	
Packing group	III	
UN proper shipping name	ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulfuric acid	
Transport hazard class(es)	IMDG Class :	8
	IMDG Subrisk :	Not Applicable
Environmental hazards	Not regulated	
Special precautions for user	EMS Number :	F-A , S-B
	Special provisions :	Not Applicable
	Limited quantity :	5 L
Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code:		

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Sulfuric acid	Y

SECTION 15 - REGULATORY INFORMATION

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

Benzenesulphonic acid, C10-16-alkyl derivs (68584-22-5) is found on the following regulatory lists	Hazardous chemicals inventory
Sulfuric acid (7664-93-9) is found on the following regulatory lists	Hazardous chemicals inventory
Benzene, C10-16-alkyl derives. (68648-87-3) is found on the following regulatory lists	Hazardous chemicals inventory



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National Inventory

Australia - AICS

Canada - DSL

Canada - NDSL

China - IECSC

Europe – EINEC / ELINCS / NLP

Japan - ENCS

Korea - KECI

New Zealand - NZIoC

Philippines - PICCS

USA - TSCA

Taiwan - TCSI

Legend :

Status

Y

Y

N (Benzenesulphonic acid, C10-16-alkyl derives.; Sulfuric acid; Benzene, C10-16-alkyl derives.)

Y

Y

N (Benzene, C10-16-alkyl derives.)

Y

Y

Y

Y

Y

Y = All ingredients are on the inventory, N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

Chemical Safety Assessment :

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

This information is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

References:

- **Information on Hazardous Chemicals and Occupational Diseases**

<http://haz-map.com/>

- **Environmental Protection Authority: HSNO Chemical Classification Information Database (CCID)**

<https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/>