



## Safety Data Sheet

Product name: SLES

The content and format of this SDS is accordant with GB/T 16483-2008 and GB/T 17519-2013

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### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** SLES

**Chemical name:** Sodium lauryl ether sulfate

**Manufacturer/Supplier:** MIT-IVYINDUSTRY CO.,LTD

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**Recommended use of the chemical and restrictions on use:** It is used as cleaning products and cosmetics raw material.

Restrictions on use: Restrictions on use: Do NOT use it in an application which may do harm to human health or may be hazardous to aquatic environment.

### 2. Hazards identification

**Emergency overview:**

It is white or light yellow gelatinous paste without peculiar smell. The product is not flammable, no special danger.

Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.

**GHS hazard classification per GB 30000. 2-2013~GB 30000. 29-2013:**

Physical hazards: Not classified.

Health hazards: Skin corrosion/irritation-2, Serious eye damage/eye irritation-2A

Environmental hazards: Hazardous to the aquatic environment, acute hazard-3

**Signal word:** Warning

**Symbol:**



**Hazard Statement:**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H402: Harmful to aquatic life.

**Prevention Precautionary Statements:**

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.



P280: Wear protective gloves/eye protection/face protection.

**Response Precautionary Statements:**

P302 + P352: IF ON SKIN: Wash with plenty water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

**Storage precautionary statements:**

No special requirement.

**Disposal precautionary statements:**

P501: Dispose of contents/container according to relevant local and national regulations.

**Physical and chemical hazards:** It is white or light yellow gelatinous paste without peculiar smell. The product is not flammable, no special danger.

**Health hazards:** Causes skin irritation. Causes serious eye irritation.

**Environmental hazards:** Harmful to aquatic life.

**Other hazards:** No information available.

### 3. Composition/information on ingredients

**Product description:** substance (); preparation/mixture (√)

Ingredient (s)	CAS number	% by weight
Sodium lauryl ether sulfate	68585-34-2	28%
Water	7732-18-5	71%
Others	--	1%

**Main indicators:**

Items	Technical specifications
Active matter (%)	28±2
Unsulfated matter	≤3.5
Sodium sulfate	≤1.5

### 4 First aid measures

**Persons using this product should consult a physician or other medical professional if an accident involving this product in injury. Specific first-aid measures are as follows:**

**Inhalation:** If discomfort occurs after inhaling vapours from processing or thermal decomposition, remove to a place where air is fresh.

**Skin Contact:** In case of contact with melts, immediately flush with cold water. If irritation persists, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Eyes Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

**Ingestion:** Rinse mouth. Do not induce vomiting without professional instruction. Get medical attention if discomfort



occurs.

**Acute effect and delayed effect:** Acute effect: Causes skin irritation. Causes serious eye irritation. Delayed effect: Not found.

**Personal protective equipment:** Recommend wearing protective gloves (e.g. rubber gloves). Wear safety goggles when exposure limits are exceeded or liquid may splash.

**Indication of any immediate medical attention and special treatment needed:** No special requirements.

## 5. Fire-fighting measures

**Extinguishing Media:** In case of a fire, use dry chemical for small fire; water fog, foam or CO<sub>2</sub> for large fire. Do NOT use water jet which may make molten material splash. Seek advice from local fire-fighting authority. Seek advice from local fire-fighting authority.

**Special hazards arising from the chemical:** The product is not flammable. No special danger is found. It may release smoke, carbon monoxide, carbon dioxide, hydrogen sulphide and other hazardous gas from burning.

### Special Fire-Fighting Method:

Remove all ignition sources when this can be done without any risk.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Cool surrounding facilities, etc. with water spray.

Remove containers from fire area if it can be done without risk.

**Special actions for fire-fighters:** Firefighters must wear gas mask, self-contained breathing apparatus and full protective equipment. Check whether the protective equipment is in good condition before use.

## 6. Accidental release measures

**Personal precautions:** Wear protective gloves, clothing, safety glasses and mask. Workers should be well trained before handling. The leakage may cause slipping hazard, so recommend wearing antiskid shoes.

**Emergency procedures:** Due to the nature of this product, there is no special requirement.

**Environmental Precautions:** Keep collected waste out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

### Measures for Cleaning/Collection:

#### Small Spill:

Mop up or absorb with an inert dry material (e.g. sand) and place in an appropriately labeled waste disposal container.

#### Large Spill:

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective gloves, clothing, safety glasses and antiskid shoes. Make sure all the present persons safe. Avoid slipping. Containers should be clearly marked for recycling or disposed as waste.

**Precautions for secondary hazards:** Keep collected waste out of municipal sewers and open bodies of water.

## 7. Handling and storage

### Precautions for safe handling:

Wash hands thoroughly after handling.

Avoid release to the environment.

Wear gloves, safety glasses/mask/antiskid shoes.

### Storage:

**Requirements to be met by storerooms:** Store it in a well-ventilated, cool and dry store room. Storage temperature should not exceed 50 °C.

**Incompatible materials:** No special requirement.

**Packing material:** Plastic

**Additional Information:** The storeroom should be equipped with proper facilities for accidental leakage and fire.

## 8. Exposure controls/personal protection

### Occupational Exposure Limits:

Ingredients	OELs (mg/m <sup>3</sup> ) (GBZ 2.1-2007)				ACGIH TLV-TWA	
	MAC	PC-TWA	PC-STEL	remark	TLV-TWA	remark
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**Monitoring Method:** The hazardous substances should be monitored per GBZ 159 “*Sampling code for monitoring of hazardous substances in workplace air*”. The well-accepted monitoring methods of other countries are also can be adopted.

**Biological limit:** Not data available

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Install washer eyes and safety showers near to the handling and storage area.

### Personal Protective Equipment (for workers):

#### Protection of Hands:

Recommend wearing protective gloves for industrial hygienic purpose.



**Protection of Eyes:** Wear safety glasses when liquid may splash.



**Respiratory Protection:** There is no special requirement under normal conditions.

**Protection of Body:** Recommend wearing protective clothing and antiskid shoes.



### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.



## 9. Physical and chemical properties

General Information	
Form	Light yellow liquid
Color	Light yellow
Odor	No peculiar smell
pH	6.5-9.5
Boiling Range	> 100°C
Melting point/Melting range	No data available
Flash point	> 100°C
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Density	No data available
Relative Vapor density	No data available
Vapor pressure (@20°C)	No data available
Solubility in/Miscibility with Water	Soluble in water and ethanol
n-octanol/Water Partition Coefficient	No data available
Self-igniting	No data available
Decomposition Temperature	No data available
Odor Threshold Value	No data available
Evaporation Rate	No data available
Flammability (solid, gas, etc.)	This product is not classified as flammable liquid.

## 10. Stability and reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** The product is not flammable. No special danger is found.

**Conditions to Avoid:** High temperature.

**Incompatible materials:** No special requirement.

**Hazardous decomposition products:** It may release smoke, carbon monoxide, Sulfur dioxide and other hazardous gas from burning.

## 11. Toxicological information

### Product Toxicity Data:

Ingredient (s)/Product	CAS#	LD <sub>50</sub> /LC <sub>50</sub> (median lethal dose)
Classification of the whole product	--	Acute toxicity (Oral) LD <sub>50</sub> : 1,700mg/kg-5,000 mg/kg (rat) Data source: Data from the manufacturer: Brown, Muir (1970), Tusing (1962), Walker (1967), Continental Oil company, P&G, Stepan company.
Classification of the whole product		not classified

**Skin corrosion/irritation:** This product is classified as Category 2. This product contains Sodium lauryl ether sulfate (CAS: 68585-34-2) which is classified as Category 2 (Data source: CCID). Considering the total percentage of this ingredient exceeds the classification criteria, the whole product is classified as Category 2.



**Serious eye damage/eye irritation:** This product is classified as Category 2A. This product contains Sodium lauryl ether sulfate (CAS: 68585-34-2) which is classified as Category 2A (Data source: CCID). Considering the total percentage of this ingredient exceeds the classification criteria, the whole product is classified as Category 2A.

**Respiratory /Skin sensitizer:** No classification for this product.

**Germ cell mutagenicity:** No classification for this product.

**Carcinogenicity:** No classification for this product.

**Reproductive Toxicity:** No classification for this product.

**STOT SE/RE:** No classification for this product.

**Aspiration hazard:** No classification for this product.

**Effects on or via lactation:** No classification for this product.

**Toxicokinetics, metabolism and distribution of information:** No relevant information.

**Other health hazards:** No relevant information.

## 12. Ecological information

### Ecotoxicity:

Sodium lauryl ether sulfate (CAS: 68585-34-2):

48h-EC<sub>50</sub>: 3.43mg/L Crustaceans

Data source: CCID

Whole product: LC<sub>50</sub>:1-450mg/L Fish

Data source: Data from the manufacturer: Brown, Muir (1970),

Tusing (1962), Walker (1967), Continental Oil company, P&G, Stepan company.

Classification of the whole product: Hazardous to the aquatic environment, acute hazard-3

### Persistence and Degradability:

Whole product: biodegradability: >95%

Data source: Data from the manufacturer

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** As it is in liquid status, it can move in soil.

## 13. Disposal considerations

**Chemical Waste:** Transport to specialized waste disposal sites for disposal. It must strictly follow local regulations for disposal.

**Contaminated packaging:** Do not throw away the used containers and wash thoroughly before recycling. The waste water should be treated as to be not hazardous before discharge.

### Cautions for disposal:

Do not allow product to reach sewage system.

Do not throw it into any open bodies of water.

## 14. Transport Information

### DOT/ Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

**Proper Shipping Name:** Not regulated.

**Hazard Class:** Not classified.

**UN Code:** Not regulated.

**Packing Group:** Not classified.



**Packing Group Symbol:** Not classified.

**Marine Pollutant (Yes/No):** No

**EMS NO.:** Not regulated.

**Note:**

*Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipments and emergency facilities for handling with release; do NOT transport this product together with incompatible substances.*

## **15. Regulatory information**

### **Laws and Regulations of China:**

**General rule for classification and hazard communication of chemicals (GB 13690-2009):**

Physical hazards: Not classified.

Health hazards: Skin corrosion/irritation-2, Serious eye damage/eye irritation-2A.

Environmental hazards: Hazardous to the aquatic environment, acute hazard-3

**The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T 15098-2008):**

Not applicable

**Dangerous Chemicals List (GB 12268-2012):** Not listed.

**Dangerous chemicals directory (2015):** Not applicable

**Production Safety Law of the People's Republic of China:** As for safe production and management, emergency handling and legal liability, comply with relevant provisions of this law.

**Occupation Disease Prevention Law the People's Republic of China:** As for precautions, prevention, management and occupational disease diagnosis, comply with relevant provisions of this law.

**The Environment Protection Law of the People's Republic of China:** As for the prevention of environment pollution and environment protection, comply with relevant provisions of this law.

### **International Laws and Regulations:**

**TSCA (Toxic Substance Control Act):** Sodium lauryl ether sulfate (CAS: 68585-34-2) is listed in the U.S. Toxic Substances Control Act Chemicals Substance Inventory List.

**(EC) 1272/2008 Annex VI Table 3.1:**

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
Not applicable	Not applicable	Not applicable

**Carcinogenicity categories:** Not listed by EPA, NTP, ACGIH and IARC.

### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

## **16. Other information**

**DISCLAIMER:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the



responsibility of the user.

**References:**

GB 16483-2008, GB 13690-2009, GB/T 17519-2013, GB 30000.2-2013~30000.29-2013, GB/T 15098-2008, GB12268-2012, Dangerous chemicals directory (2015), etc.

**Full description of some acronyms:**

**GHS-Globally Harmonized System of Classification and Labelling of Chemicals**

**CAS-Chemical Abstracts Service**

**EINECS-European Inventory of Existing Commercial Chemical Substances**

**ACGIH- American Conference of Governmental Industrial Hygienists**

**OSHA-Occupational Safety and Health Administration**

**IARC- International Agency for Research on Cancer**

**NTP- The National Toxicology Program**

**IMO-International Maritime Organization**

**IMDG-International Maritime Dangerous Goods**

**IATA-International Air Transport Association**

**ICAO-International Civil Aviation Organization**

**TSCA-Toxic Substance Control Act**

**ECHA- European Chemicals Agency**

**CWA- Clean Water Act**

**HSDB-Hazardous Substances Data Bank (HSDB)**

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