



Material Safety Data sheet

1. Identification

Product identifier

| | |
|-------------------------------|---|
| Other means of identification | LABSA (Linear Alkyl Benzene Sulfonic Acid 97%) |
| Product code | |
| Recommended use restrictions | Recommended 1737 Surfactant For industrial use only. |

Manufacturer/Importer/Supplier/Distributor information

| | |
|--------------|--------------------------------|
| Manufacturer | |
| Company name | TIDY Company |
| Address | IRAN |
| Telephone | +982188191753 +982188190269 |
| E-mail | info@tidyco.ir |

2. Hazard(s) identification

| | | |
|------------------------------|--|------------|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, oral | Category4 |
| | Skin corrosion/irritation | Category 1 |
| | Serious eye damage/ey | |
| Environmental hazards | Irritation | Category1 |
| | Hazardous to the aquatic environment, acute hazard | Category 2 |
| | Hazardous to the aquatic environment, long-term hazard | Category 3 |
| OSHA defined hazards | | |
| Label elements | Not classified. | |





| | |
|--|--|
| Signal word | Danger |
| Hazard statement | Harmful if swallowed. Causes severe skin burns and eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. |
| Precautionary statement | |
| Prevention | Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. |
| Response | If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Specific treatment (see this label). Wash contaminated clothing before reuse. |
| Storage | Store locked up. |
| 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 | Common name and synonyms | CAS number | % |
|---|--------------------------|-------------|----------|
| Alkyl (C10-16) benzenesulfonic acid (Alt CAS 27176-87-0 85536-14-7) | | 68584-22-5 | 90 - 100 |
| Alkyl Benzene-Ln. (C10-13) (Alternate CAS: 67774-74-7) | | 129813-58-7 | 1 - < 3 |
| Sulfuric acid | | 7664-93-9 | 1 - < 3 |
| Other components below reportable levels | | | < 1 |





4. First-aid measures

| | |
|---|---|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center. |
| Most important symptoms effects, acute and delayed | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation Symptoms may be delayed. |
| General information | IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

| | |
|---|---|
| Suitable extinguishing media | Dry chemical, foam, carbon dioxide, water fog. |
| Unsuitable extinguishing media | Water. Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |





Special protective equipment and precautions for firefighters

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

Fire fighting equipment/ instructions

Move containers from fire area if you can do so without risk.

Specific methods

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

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe 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.

Should not be released into the environment

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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.

Environmental precautions

Never return spills to original containers for re-use.

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.





Conditions for safe storage, including any incompatibilities

Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

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

| Components | Type | Value |
|-------------------------------|------|---------------------|
| Sulfuric acid (CAS 7664-93-9) | PEL | 1 mg/m ³ |

US. ACGIH Threshold Limit Values

Components

| Components | Type | Value | Form |
|------------------------------|------|-----------------------|-------------------|
| Sulfuric acid (CAS 7664-939) | TWA | 0.2 mg/m ³ | Thoracic fraction |

US.NIOSH:PocketGuideto Chemical

Hazards Components

| Components | Type | Value |
|-------------------------------|------|---------------------|
| Sulfuric acid (CAS 7664-93-9) | TWA | 1 mg/m ³ |

Biological limit values

No biological exposure limits noted for the ingredient(s).

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear appropriate chemical resistant gloves.

Hand protection

Other

Wear appropriate chemical resistant clothing. Wear protective gloves.





Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. 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.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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.

9. Physical and chemical properties

Appearance

Liquid.

Physical state

Viscous. Liquid.

Form

Dark amber.

Color

Not available

Odor

Liquid.

Odor threshold

Not available

pH

< 1 (as is)

Melting point/freezing point

-0.4 °F (-18 °C)

Initial boiling point and boiling range

> 212 °F (> 100 °C)

Flash point

Not applicable

Evaporation rate

Estimated slower than ethyl ether

Flammability (solid, gas)

Not available

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.

Vapor pressure

Not available.

Vapor density

Not available

Vapor density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.





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Viscosity 890 cP @ 25C
Other information
Density 8.81 lb/gal @ 25C
Pour point 5 °F (-15 °C)

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 Avoid heat, sparks, open flames and other ignition sources. Avoid

Incompatible materials temperatures exceeding the flash
Hazardous decomposition products point. Contact with incompatible materials.No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

Skin contact Causes severe skin burns. May be harmful in contact with skin

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.





Information on toxicological effects

Acute toxicity

Harmful if swallowed. May be harmful in contact with skin.

| Product | Species | Test Results |
|----------------|---------|------------------|
| BLO-SOFT S-101 | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Oral | | |
| LD50 | Rat | 500 - 2000 mg/kg |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

The International Agency for Research on Cancer (IARC) has concluded that occupational exposure to strong-inorganic acid mists containing sulfuric acid is carcinogenic to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity - single exposure

Not applicable.

Specific target organ toxicity - repeated exposure

Not applicable.

Aspiration hazard

Not applicable.





12. Ecological information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

| Product BLO-SOFT S-101 | Species | Test Results |
|---------------------------|--------------|---------------------|
| Aquatic | | |
| Algae | EC50 Algae | 47.3 mg/l, 72 hours |
| Crustacea | EC50 Daphnia | 2.4 mg/l, 48 hours |
| Fish | LC50 Fish | 1.67 mg/l, 96 hours |

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

No data available.

Mobility in soil

No data available

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

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

Hazardous waste code

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

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).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.





14. Transport information

| | |
|--|--|
| General | The provided transportation classifications are for bulk shipments only and may not be representative of all package/shipment sizes. |
| DOT | |
| UN number | UN3265 |
| UN proper shipping name | Corrosive liquid, acidic, organic, N.O.S. (Alkylbenzene sulfonic acid, Sulfuric acid RQ = 76336 LBS) |
| Transport hazard class(es) Class | 8 |
| Subsidiary risk | - |
| Packing group | II |
| Special precautions for user | |
| IATA | |
| UN number | UN3265 |
| UN proper shipping name | RQ, Corrosive liquid, acidic, organic, N.O.S. (Alkylbenzene sulfonic acid, Sulfuric acid) |
| Transport hazard class(es) | 8 |
| Class | - |
| Subsidiary risk | II |
| Packing group | NO |
| Environmental hazards | |
| Special precautions for user | Not available |
| IMDG | |
| UN number | UN3265 |
| UN proper shipping name | RQ, Corrosive liquid, acidic, organic, N.O.S. (Alkylbenzene Sulfonic Acid, Sulfuric acid) |
| Transport hazard class(es) | 8 |
| Class | - |
| Subsidiary risk | II |
| Packing group | |
| Environmental hazards | |
| Marine pollutant | NO |
| EmS | Not available. |
| Special precautions for user | Not available. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not available. Not available. |
| DOT | |





IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) CERCLA Hazardous Substance List (40 CFR 302.4)

Not regulated.

Sulfuric acid (CAS 7664-93-9) SARA 304 Emergency release notification

Listed.

SULFURIC ACID (CAS 7664-93-9) OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

1000 LBS

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Not regulated.





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chemical

Yes

Classified hazard
Categories

Acute toxicity (any route of exposure) Skin corrosion or irritation
Serious eye damage or eye irritation.

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Sulfuric acid | 7664-93-9 | 1 - < 3 |

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

Clean Water Act (CWA)
Section
112(r) (40 CFR 68.130)

Hazardous substance

Drug Enforcement Administration
(DEA). List 2, Essential Chemicals
(21 CFR 1310.02(b) and 1310.04(f)(2)
and Chemical Code Number

Sulfuric acid (CAS 7664-93-9)

6552

Drug Enforcement Administration
(DEA). List 1 & 2 Exempt Chemical
Mixtures (21 CFR 1310.12(c))

Sulfuric acid (CAS 7664-93-9)

20 %WV

DEA Exempt Chemical Mixtures
Code Number

Sulfuric acid (CAS 7664-93-9)

6552

US state regulations California Proposition 65





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California Proposition 65 - CRT: _Sulfur dioxide (CAS 7446-09-5)

Listed: July 29, 2011

Listed date/Developmental toxin

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 |
| Japan | Inventory of Existing and New Chemical Substances (ENCs) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory (NZIoC) | Yes |
| Philippine | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

A "Yes" indicates that all components of this product comply 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 country(s).





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

| | |
|-----------------------------|--|
| Issue date | 006-06-2019 |
| Revision date | 006-06-2024 |
| Version # | 10 |
| Disclaimer | Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions. |
| Revision information | Hazard(s) identification: Hazard statement Hazard(s) identification: Prevention Hazard(s) identification: GHS Symbols Handling and storage: Precautions for safe handling Toxicological information: Carcinogenicity GHS: Classification |

