

1. IDENTIFICATION

Product Name Linear alkyl benzenesulfonic acids

Other Names Dodecylbenzenesulfonic acid [CAS#27176-87-0]; LABSA; LAS

UsesDetergent, emulsifier.Chemical FamilyNo Data AvailableChemical FormulaUnspecified

Chemical Name Benzenesulfonic acid, C10-16-alkyl derivatives

Dandenong South VIC 3175

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

OrganisationLocationTelephoneAurora Cleaning SuppliesF1 / 5 Bungaleen Court03 9768 2669

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone	
Chemcall	Australia	1800-127406	
Officialis	Additional	+64-4-9179888	
Chemcall	Malaysia	+64-4-9179888	
Chemcall	New Zealand	0800-243622 +64-4-9179888	
National Poisons Centre	New Zealand	0800-764766	
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887	

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Schedule 6

Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Corrosive to Metals - Category 1

Acute Toxicity (Oral) - Category 4
Skin Corrosion/Irritation - Category 1B
Serious Eye Damage/Irritation - Category 1

Acute Hazard To The Aquatic Environment - Category 2

Pictograms





Signal Word Danger

Hazard Statements H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

Precautionary Statements Prevention **P260** Do not breathe mist/vapour/spray.

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

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

Response P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P310 Immediately call a POISON CENTER or doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P390 Absorb spillage to prevent material-damage.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

Storage P406 Store in corrosive resistant container with a resistant inner liner.

P405 Store locked up.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications	Health Hazards	6.1D	Substances that are acutely toxic - Harmful	
		8.1A	Substances that are corrosive to metals	
		8.2B	Substances that are corrosive to dermal tissue UN PGII	
		8.3A	Substances that are corrosive to ocular tissue	
	Environmental Hazards	9.1D	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Benzenesulfonic acid, C10-16-alkyl derivatives	Unspecified	68584-22-5	>=96 %
Benzene, C10-13-alkyl derivatives	Unspecified	67774-74-7	<=2 %
Sulphuric acid	H2SO4	7664-93-9	<=2 %
Water	H2O	7732-18-5	<=2 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for

advice. If vomiting occurs, rinse mouth and keep head lower than hips to help prevent aspiration. Obtain immediate

medical care. Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally

lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Centre or doctor/physician for advice. Obtain immediate medical care.

Skin IF ON SKIN: Remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15

minutes; Wash with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. Immediately call a Poison Centre or doctor/physician for advice. Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

> Poison Centre or doctor/physician for advice. Apply resuscitation if victim is not breathing - Do not use direct mouthto-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory

device. Administer oxygen if breathing is difficult. Obtain immediate medical care.

Advice to Doctor Treat symptomatically - Treatment of overexposure should be directed at the control of symptoms and the clinical

condition of the patient. Keep victim calm and warm - Obtain immediate medical care. Ensure that attending medical

personnel are aware of identity and nature of product(s) involved, and take precautions to protect themselves.

Medical Conditions Aggravated

by Exposure

No information available.

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is

out. Avoid getting water inside containers.

Flammability Conditions Combustible; May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), alcohol-resistant foam or water spray for extinction - Do not use water jets.

Containers may explode when heated. When heated, vapours may form explosive mixtures with air. Contact with Fire and Explosion Hazard

metals may evolve flammable hydrogen gas.

Hazardous Products of

Combustion

Fire will produce irritating, toxic and/or corrosive gases, including oxides of Carbon, oxides of Sulphur.

Special Fire Fighting

Instructions

Contain runoff from fire control or dilution water - Runoff may be toxic and/or corrosive and pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. Fully-encapsulating, gas-tight suits should

be worn for maximum protection. Structural firefighter's uniform is NOT effective for this material. Flash Point >150 °C

Lower Explosion Limit No Data Available No Data Available **Upper Explosion Limit Auto Ignition Temperature** No Data Available

Hazchem Code 2X

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources. Do not

touch or walk through spilled material. Do not breathe vapours; Prevent contact with eyes, skin and clothing.

Absorb with earth, sand or other non-combustible material and transfer to suitable container for disposal (see Clean Up Procedures

SECTION 13)

Containment Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Large spill: Dike for later disposal.

Decontamination No information available.

Environmental Precautionary

Measures

Spillages and decontamination runoff should be prevented from entering drains and watercourses.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground (vapours can accumulate in low areas). Large spill: Consider initial downwind evacuation of areas within at

least 250 m; Immediately contact Police or Fire Brigade.

Personal Precautionary

Measures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (see SECTION 8).

Large spill: Wear self-contained breathing apparatus (SCBA) and chemical splash suit.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

> adequate ventilation - Open only under well-ventilated conditions. Loosen closure cautiously before opening. Handle with care and in accordance with good industrial hygiene and safety practice. Do not breathe mist/vapours/spray; Prevent contact with eyes, skin and clothing. Wear protective gloves/protective clothing/eye protection/face protection; Wear respiratory protection if there is a risk of exposure to high vapour concentrations or spray mist (see

SECTION 8). Keep away from heat and sources of ignition - No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Absorb spillage to prevent material damage (see SECTION 6).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from

heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10). Store locked

Container Keep only in the original container or store in a corrosive resistant container with a resistant inner liner.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For COMPONENT: Sulphuric acid (CAS No. 7664-93-

- Safe Work Australia Exposure Standard: TWA = 1 mg/m3; STEL = 3 mg/m3.

- New Zealand WES: TWA = 1 mg/m3; Confirmed carcinogen (6.7A); Currently under review.

Exposure Limits No Data Available

Biological Limits No information available.

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible, **Engineering Measures**

particularly in confined spaces. Local exhaust ventilation is generally preferred because it can control the emissions of

the contaminant at its source, preventing dispersion of it into the general work area. Use explosion-proof

electrical/ventilating/lighting equipment.

Personal Protection Equipment - Respiratory protection: Wear respiratory protection if there is a risk of exposure to high vapour concentrations or

spray mist. Recommended filter type: E/P (acid gas/particulate).

- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Chemical goggles or

- Hand protection: Wear protective gloves. Recommended: Chemical-resistant gloves.

- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended:

Chemical-resistant clothing.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove contaminated clothing

and shoes immediately and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Viscous liquid

Odour No information available.

Colour Amber pН <2

Vapour Pressure 0.513 mmHg (@ No Data Available)

Relative Vapour Density No Data Available

Boiling Point >50 °C **Melting Point** <-10 °C Freezing Point <-10 °C Solubility 7.098 mg/l **Specific Gravity** 1.05 - 1.06 Flash Point >150 °C

Auto Ignition Temp No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available **Density** No Data Available **Specific Heat** No Data Available

Molecular Weight 322 g/mol

Net Propellant Weight No Data Available **Octanol Water Coefficient** log Kow = 2**Particle Size** No Data Available **Partition Coefficient** No Data Available Saturated Vapour Concentration No Data Available **Vapour Temperature** No Data Available **Viscosity** No Data Available Volatile Percent No Data Available **VOC Volume** No Data Available **Additional Characteristics** No information available.

Potential for Dust Explosion Not applicable.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning **Rate of Solid Materials**

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

Fire

No information available.

Properties That May Initiate or Contribute to Fire Intensity

Combustible; May burn but does not ignite readily.

Reactions That Release Gases

or Vapours

Fire will produce irritating, toxic and/or corrosive gases, including oxides of Carbon, oxides of Sulphur.

Release of Invisible Flammable

Vapours and Gases

When heated, vapours may form explosive mixtures with air. Contact with metals may evolve flammable hydrogen

10. STABILITY AND REACTIVITY

General Information May be corrosive to metals.

Chemical StabilityThis material is stable under recommended storage and handling conditions.

Conditions to Avoid Keep away from heat and sources of ignition.

Materials to Avoid Incompatible/reactive with strong oxidising agents, strong alkalis, metals.

Hazardous Decomposition

Products

Fire will produce irritating, toxic and/or corrosive gases, including oxides of Carbon, oxides of Sulphur. Contact with

metals may evolve flammable hydrogen gas.

Hazardous Polymerisation Will not occur

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: Harmful if swallowed. Causes digestive tract burns. May be harmful in contact with skin.

Skin corrosion/irritation: Causes severe skin burns; Corrosive to skin.
Eye damage/irritation: Causes serious eye damage; Corrosive to eyes.

Respiratory/skin sensitisation: Non-sensitising [GPMT].
Germ cell mutagenicity: No information available.
Carcinogenicity: No information available.
Reproductive toxicity: No information available.

- STOT (single exposure): May cause irritation to the respiratory system.

- STOT (repeated exposure): Not information available.

- Aspiration toxicity: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 500 - 2,000 mg/kg

Other Acute toxicity (Dermal):

- LD50, Rabbit: >2,000 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Oncorhynchus mykiss): 3 mg/l (96 h).- EC50, Crustacea (Daphnia magna): 2.9 mg/l (48 h).

- EC50, Algae: 170 mg/l (96 h).

Persistence/DegradabilityReadily biodegradable.MobilityNo information available.

Environmental Fate Toxic to aquatic life - Avoid release to the environment.

Bioaccumulation Potential Low potential for bioaccumulation.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

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

Special Precautions for Land Fill No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

EPG 36 Toxic And/Or Corrosive Substances Combustible

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Land Transport (Canada)

TDG Regulations

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances

Subsidiary Risk(s) No Data Available

EPG 36 Toxic And/Or Corrosive Substances Combustible

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Land Transport (Fiji)

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

EPG 36 Toxic And/Or Corrosive Substances Combustible

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Land Transport (Malaysia)

ADR Code

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances

Subsidiary Risk(s) No Data Available

EPG 36 Toxic And/Or Corrosive Substances Combustible

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances

Subsidiary Risk(s) No Data Available

EPG 36 Toxic And/Or Corrosive Substances Combustible

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Land Transport (Papua New Guinea)

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

EPG 36 Toxic And/Or Corrosive Substances Combustible

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

ERG 153 Substances - Toxic and/or Corrosive (Combustible)

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

EMS F-A, S-B **Marine Pollutant** No

Air Transport

IATA DGR

Proper Shipping Name ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

 UN Number
 2586

 Hazchem
 2X

 Pack Group
 III

Special Provision No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General InformationNo Data AvailablePoisons Schedule (Aust)Schedule 6

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR002491

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes DOBENC1000, DOBENC1100, DOBENZ1000, DOBENZ1001, DOBENZ1002, DOBENZ1003,

DOBENZ1004, DOBENZ1005, DOBENZ1006, DOBENZ1007, DOBENZ1008, DOBENZ1009, DOBENZ1010, DOBENZ1011, DOBENZ1012, DOBENZ1013, DOBENZ1014, DOBENZ1015, DOBENZ1016, DOBENZ1021,

DOBENZ1500, DOBENZ1501, DOBENZ1800, DOBENZ1801, DOBENZ1802, DOBENZ1803, DOBENZ1804,

Revision Date

Key/Legend

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DOBENZ1805, DOBENZ1806, DOBENZ1807, DOBENZ1808, DOBENZ1809, DOBENZ1810, DOBENZ1811,
DOBENZ1812, DOBENZ1813, DOBENZ1814, DOBENZ1815, DOBENZ1816, DOBENZ1817, DOBENZ1818,
DOBENZ1819, DOBENZ1820, DOBENZ1821, DOBENZ1900, DOBENZ2010, DOBENZ2012, DOBENZ2017,
DOBENZ2100, DOBENZ2101, DOBENZ2102, DOBENZ2103, DOBENZ2105, DOBENZ2108, DOBENZ2110,
DOBENZ2500, DOBENZ2501, DOBENZ2600, DOBENZ3000, DOBENZ3010, DOBENZ3020, DOBENZ3030,
DOBENZ3031, DOBENZ3040, DOBENZ3300, DOBENZ3400, DOBENZ3500, DOBENZ3600, DOBENZ4000,
DOBENZ4100, DOBENZ4101, DOBENZ4110, DOBENZ5000, DOBENZ5100, DOBENZ5200, DOBENZ5201,
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DOBENZ9703, DOBENZ9704, DOBENZ9705, DOBENZ9706, DOBENZ9707, DOBENZ9708, DOBENZ9709,
DOBENZ9710, DOBENZ9711, DOBENZ9712, DOBENZ9800, DOBENZ9801, DOBENZ9802, DOBENZ9900
22/08/2024
< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm<sup>2</sup> Square Centimetres
CO2 Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) Degrees Celcius
EPA (New Zealand) Environmental Protection Authority of New Zealand
deg F (°F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/I Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH2O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of
50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50%
(one half) of a group of test animals.
Itr or L Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component
present.
mm Millimetre
mmH2O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
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ppm/2h Parts per Million per 2 Hours **ppm/6h** Parts per Million per 6 Hours **psi** Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours UN United Nations wt Weight