

Safety Data Sheet SUDAN 3

SDS no. SXW8MZ6P • Version 1.0 • Date of issue: 2024-08-01

SECTION 1: Identification

GHS Product identifier

Product name SUDAN 3

Other means of identification

Product Product Code

SUDAN 3 LR SL090
1-[4-(Phenylazo)phenylazo]-2-naphthol
, 1-((4-(Phenylazo)phenyl)azo)-2-naphthalenol,
D & C Red No. 17, C.I. Solvent Red 23, C.I. 26100, Oil red III, Oil scarlet

Recommended use of the chemical and restrictions on use

Colouring oils and spirit lacquers, stain and laboratory reagent.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Carcinogenicity, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H351

Suspected of causing cancer

Precautionary statement(s)

P201

Obtain special instructions before use.

P202

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

P280

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

P308+P313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 352.4

Components

Component	CAS no.	Concentration
Sudan III (EC no.: 201-638-4)	85-86-9	100 - 100 % (weight)

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

In case of skin contact

Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.

If swallowed

Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂, water spray or foam.

Large fire: Use water spray, fog or foam.

Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire (oxides of carbon, sulfur and nitrogen).

May burn but do not ignite readily. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive gases.

This product in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Store away from oxidizing agents. Store away from sources of heat or ignition. Keep containers closed at all times. Keep in a cool, dry, well-ventilated place.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Recommendation: Rubber or plastic gloves.

Body protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Reddish brown powder.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	199 °C
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	199 °C
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Insoluble. Solubility in Organic Solvents: Soluble in chloroform and glacial acetic acid. Moderately soluble in alcohol, ether, acetone, petroleum ether, fixed and volatile oils and hot glycerol.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Heat, flames, ignition sources and incompatibles.

Incompatible materials

Strong oxidisers, strong reducing agents.

Hazardous decomposition products

Burning and when heated to decomposition may produce oxides of carbon, sulfur and nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion: Large dose may cause gastrointestinal upset.

Inhalation: May cause irritation to respiratory system. Symptoms may include coughing and breathing difficulty.

Skin corrosion/irritation

May cause irritation to skin. May cause skin discolouration.

Serious eye damage/irritation

May cause mechanical irritation to eyes.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

Sudan III [85-86-9] is evaluated in the IARC Monographs (Vol. 8, Suppl. 7; 1987) as Group 3: Unclassifiable as to carcinogenicity to humans.

H351 Suspected of causing cancer.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

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Sudan III: rabbit LDLo intraperitoneal 250mg/kg (250mg/kg) LIVER: "HEPATITIS (HEPATOCELLULAR NECROSIS), DIFFUSE"

LIVER: "HEPATITIS (HEPATOCELLULAR NECROSIS), ZONAL"

LIVER: "HEPATITIS, FIBROUS (CIRRHOSIS, POST-NECROTIC SCARRING)" Journal of Pathology and Bacteriology. Vol. 87, Pg. 317, 1964.

[Link to PubMed](#)

rabbit LDLo intrapleural 500mg/kg (500mg/kg) LIVER: "HEPATITIS (HEPATOCELLULAR NECROSIS), DIFFUSE"

LIVER: "HEPATITIS (HEPATOCELLULAR NECROSIS), ZONAL"

LIVER: "HEPATITIS, FIBROUS (CIRRHOSIS, POST-NECROTIC SCARRING)" Journal of Pathology and Bacteriology. Vol. 87, Pg. 317, 1964.

[Link to PubMed](#)

rabbit LDLo subcutaneous 1gm/kg (1000mg/kg) LIVER: "HEPATITIS (HEPATOCELLULAR NECROSIS), DIFFUSE"

LIVER: "HEPATITIS (HEPATOCELLULAR NECROSIS), ZONAL"

LIVER: "HEPATITIS, FIBROUS (CIRRHOSIS, POST-NECROTIC SCARRING)" Journal of Pathology and Bacteriology. Vol. 87, Pg. 317, 1964.

[Link to PubMed](#)

SECTION 12: Ecological information

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended.

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)