UN GHS REVISION 7

Safety Data Sheet
Sudan IV Fat Stain

Version 1.0, Date of issue: 2026-08-14

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Sudan IV Fat Stain
Product number	SIVHA-500M/1L
Brand	Hurstchem

1.3 Recommended use of the chemical and restrictions on use

Laboratory Reagent

1.4 Supplier's details

Name	Hurst Scientific
Address	2 Transit Place, 6112 Forrestdale WA, Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

1.5 Emergency phone number

Australian Poisons Information Centre 13 11 26
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

2.1 Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Flammable Liquid, Cat. 2
- Carcinogenicity, Cat. 1A
- STOT – Single Exposure, Cat. 1
- Acute Toxicity (Inhalation), Cat. 4
- Acute Toxicity (Oral), Cat. 4
- Acute Toxicity (Dermal), Cat. 5
- Hazardous to the Aquatic Environment (Acute), Cat. 2
- STOT – Repeated Exposure, Cat. 2
- Serious Eye Damage/Irritation, Cat. 2B

2.2 GHS label elements, including precautionary statements

Pictograms

1. Flame; 2. Exclamation mark; 3. Health hazard

Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H350	May cause cancer.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly 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.
P301+P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P307+P311	IF exposed: Call a POISON CENTRE/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.

P321	Specific treatment (see supplemental first-aid instructions on this label).
P330	Rinse mouth.
P370+P378	In case of fire: Use appropriate extinguishing media for the surrounding fire.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

No information available on PBT / vPvB status or endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Methyl isobutyl ketone (CAS: 108-10-1)	**0.3%**
CLASSIFICATIONS: Flammable Liquid, Cat. 2; Carcinogenicity, Cat. 2; Acute Toxicity (Inhalation), Cat. 4; STOT – Single Exposure (narcotic effects), Cat. 3; Serious Eye Damage/Irritation, Cat. 2A; STOT – Single Exposure (respiratory irritation), Cat. 3. **HAZARDS:** H225 - Highly flammable liquid and vapour; H351 - Suspected of causing cancer; H332 - Harmful if inhaled; H336 - May cause drowsiness or dizziness; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation.	
Ethyl alcohol (CAS: 64-17-5)	**28.53%**
CLASSIFICATIONS: Flammable Liquid, Cat. 2; Serious Eye Damage/Irritation, Cat. 2A. **HAZARDS:** H225 - Highly flammable liquid and vapour; H319 - Causes serious eye irritation.	
Methanol (CAS: 67-56-1)	**1.43%**
CLASSIFICATIONS: Flammable Liquid, Cat. 2; Acute Toxicity (Inhalation), Cat. 3; Acute Toxicity (Dermal), Cat. 3; Acute Toxicity (Oral), Cat. 3; STOT – Single Exposure, Cat. 1. **HAZARDS:** H225 - Highly flammable liquid and vapour; H331 - Toxic if inhaled; H311 - Toxic in contact with skin; H301 - Toxic if swallowed; H370 - Causes damage to organs.	
Isopropanol (CAS: 67-63-0)	**2.99%**
Acetone (CAS: 67-64-1)	**49.97%**
Water (CAS: 7732-18-5)	**16.73%**
Sudan IV (CAS: 85-83-6)	**0.5%**
CLASSIFICATIONS: Carcinogenicity, Cat. 2. **HAZARDS:** H351 - Suspected of causing cancer.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

Eye contact

Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.

Skin contact

Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.

Inhalation

Evacuate to fresh air immediately. If unconscious, place in recovery position and provide artificial respiration if breathing ceases. Seek medical attention.

Ingestion

DO NOT induce vomiting. Wash mouth out with copious amounts of water and seek medical attention.

First-aid facilities

Eye wash station, safety shower and First Aid kit.

4.2 Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in Section 2 (hazard statements) and Section 11 (toxicological information).

4.3 Indication of immediate medical attention and special treatment needed

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

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Alcohol-resistant foam, dry chemical powder, carbon dioxide or water spray. Do not use water jets. Keep containers cool with water spray.

5.2 Specific hazards arising from the chemical

Vapour is heavier than air and may travel along the ground to distant ignition sources and flash back. Vapours may form explosive mixtures with air. Combustion may produce toxic and irritating gases, including oxides of carbon.

5.3 Special protective actions for fire-fighters

Fire fighters should wear self-contained breathing apparatus (SCBA) operated in positive-pressure mode and full protective clothing. Fight the fire from a safe location. Use of water spray may be inefficient. If safe to do so, move containers from the fire area and cool them with flooding quantities of water until well after the fire is out. Prevent firefighting runoff from entering waterways, drains and sewers. Contain and collect fire-control water for later disposal.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin and eyes. Wear suitable protective equipment (see Section 8). Evacuate non-essential personnel from the area. Remove all sources of ignition. Vapours may accumulate in low-lying areas and form explosive concentrations.

6.2 Environmental precautions

Prevent the spill from entering drains, sewers and waterways. In the event of a major spill, contain the material and notify the relevant authorities. This product is hazardous to the aquatic environment — prevent any release to the environment.

6.3 Methods and materials for containment and cleaning up

Contain the spill and prevent entry into drains, sewers and waterways. Absorb with inert absorbent material (e.g. sand, vermiculite or earth) and transfer to a suitable, labelled container for disposal. Rinse the affected area with water. Dispose of in accordance with Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat, sparks, open flame and other ignition sources — No smoking. Use flameproof electrical equipment and non-sparking tools. Bond and ground containers during transfer to prevent static discharge. Empty containers retain flammable residue — do not cut, weld or drill.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and upright when not in use. Store away from incompatible materials (see Section 10). Inspect containers regularly for damage or leaks. Store in an area approved for flammable liquids (cabinet or purpose-built store), away from heat, ignition sources and direct sunlight; storage areas must be No Smoking. Vapour is heavier than air — beware accumulation in pits and confined spaces.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Methyl isobutyl ketone (CAS: 108-10-1)
AU/SWA (AU): TWA: 50 ppm (205 mg/m³); STEL: 75 ppm (307 mg/m³)

Ethyl alcohol (CAS: 64-17-5)
AU/SWA (AU): TWA: 1000 ppm (1880 mg/m³)

Methanol (CAS: 67-56-1)
AU/SWA (AU): TWA: 200 ppm (262 mg/m³); STEL: 250 ppm (328 mg/m³); Notes: Sk

Isopropanol (CAS: 67-63-0)
AU/SWA (AU): TWA: 400 ppm (983 mg/m³); STEL: 500 ppm (1230 mg/m³)

Acetone (CAS: 67-64-1)
AU/SWA (AU): TWA: 500 ppm (1185 mg/m³); STEL: 1000 ppm (2375 mg/m³)

Water (CAS: 7732-18-5)
AU/SWA (AU): No occupational exposure limit established.

Sudan IV (CAS: 85-83-6)
AU/SWA (AU): No occupational exposure limit established.

8.2 Appropriate engineering controls

Ensure an adequate ventilation or exhaust system is in place.

8.3 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 Standard AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand protection

Use occupational protective gloves complying with AS 2161 (Selection, Use and Maintenance).

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Dark red liquid
Colour	No data available
Odour	Strong Fruity
Odour threshold	No data available
Melting point/freezing point	199 dec
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	No data available
Oxidising properties	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Evaporation rate	No data available
Density and/or relative density	No data available
Relative vapour 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

10.1 Reactivity

Not generally reactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Sparks, open flame, other ignition sources, and elevated temperatures. Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.

10.5 Incompatible materials

Caustics (bases), Peroxides, Strong acids, Oxidising materials, Halogens, Water-reactive materials, Strong oxidising agents, Acids, Strong reducing agents, Magnesium

10.6 Hazardous decomposition products

Carbon oxides

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Harmful if swallowed; Harmful if inhaled; Oral LD_{50}: 5,800 mg/kg; Dermal LD_{50}: 7,429 mg/kg; Inhalation LC_{50}: 50,100 mg/m3

Skin corrosion/irritation

Not expected to be a skin irritant.

Serious eye damage/irritation

Causes eye irritation.

Respiratory or skin sensitisation

Not expected to be a respiratory or skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Possibly carcinogenic to humans

Reproductive toxicity

Not considered to be toxic to reproduction.

Specific target organ toxicity (STOT) - single exposure

Causes damage to organs.

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not expected to be an aspiration hazard.

SECTION 12: Ecological information

Toxicity

ACETONEB Result: 91% -Readily biodegradable. LC50 - Oncorhynchus mykiss (rainbow trout - 5,540 mg/l - 96 h LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 hr ETHANOL LC50 - Pimephales promelas (fathead minnow) - 14,200 mg/l - 96 h LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l - 48 h ISOPROPANOL EC50 - Daphnia magna (water flea) - 5,102.00 mg/l - 24 h EC50 - Daphnia magna (water flea) - 6,851 mg/l - 24 h EC50 - Desmodesmus subspicatus (chodat) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 h Methanol LC50 - Lepomis macrochirus (bluegill) - 15.400 mg/l - 96 h NOEC - Oryzias latipes - 7.900 mg/l - 200 h EC50 - Daphnia magna (water flea) - >10,000 mg/l - 48 h EC50 - Selenastrum capricornutum (green algae) - 22,000 mg/l - 96 h

Persistence and degradability

AEROBIC: The theoretical BOD of methyl isobutyl ketone (5 ppm) in seawater was measured as 27.6% and 30.6% over a 5 day incubation period. The theoretical BOD of methyl isobutyl ketone in freshwaters seeded with settled domestic sewage was 56%, 66%, 69% and 69%, over 5, 10, 15 and 20 day incubation periods. The theoretical BOD of methyl isobutyl ketone in synthetic seeded seawaters with settled domestic sewage was 15%, 46%, 50% and 53%, over 5, 10, 15 and 20 day incubation periods. Methyl isobutyl ketone, present at 100 mg/L, reached 84% of its theoretical BOD in 2 weeks using an activated sludge inoculum at 30 mg/L in the Japanese MITI test. Methyl isobutyl ketone was degraded 78-84% with a degradation rate of 0.24 1/hr in experiments using activated sludge inoculum, 100 mg/L of methyl isobutyl ketone, 30 mg/L biomass and a temperature of 28 °C for 28 days. Methyl isobutyl ketone had influent concentrations of 8100, 8100 and 190 µg/L and effluent concentrations of 27.5, 40.5 and <10 µg/L using an activated sludge with a daily mass loading of COD/bacterial mass ratios of 0.1, 0.36 and 0.48, respectively. Methyl isobutyl ketone was degraded from 855 µg/L to 143 µg/L in 12 hours and from 3385 µg/L to 1098 µg/L in 8 hours using activated sludge that was acclimated for 3 weeks. In a wastewater stream, a BOD of 2.06 g of oxygen/g and a COD of 2.16 g of oxygen/g for methyl isobutyl ketone were found

Bioaccumulative potential

An estimated BCF of 3 was calculated in fish for methyl isobutyl ketone, using a log Kow of 1.31 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Endocrine disrupting properties

No data available

Other adverse effects

No data available

SECTION 13: Disposal considerations

Product disposal

Dispose of in accordance with local authority guidelines.

Packaging disposal

Dispose of in accordance with local authority guidelines. Empty containers may retain product residue and vapour. Do not cut, weld, braze, solder, drill or reuse containers.

Waste treatment

Dispose of in accordance with local authority guidelines.

Sewage disposal

Do not contaminate drains and waterways.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers. Empty containers retain liquid and/or vapour residue and are not to be pressure cut, welded, brazed, soldered, drilled or exposed to heat, flame, sparks, electricity or any other source of ignition. Rinse containers thoroughly with cold water when empty.

SECTION 14: Transport information

ADG (Australian Dangerous Goods Code, 7th Edition)

UN Number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains ACETONE, ETHANOL)
Transport hazard class	3
Packing group	II
Special provisions	274
Hazchem code	●3YE
Environmental hazards	Not classified

IMDG (International Maritime Dangerous Goods Code)

UN Number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains ACETONE, ETHANOL)
Transport hazard class	3
Packing group	II
Marine pollutant	No

IATA (International Air Transport Association Dangerous Goods Regulations)

UN Number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains ACETONE, ETHANOL)
Transport hazard class	3
Packing group	II

SECTION 15: Regulatory information

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

Methyl isobutyl ketone (CAS: 108-10-1)
Australia SUSMP — Poison Schedule: Schedule 5

Ethyl alcohol (CAS: 64-17-5)
Australia SUSMP — Poison Schedule: Not Scheduled (NS)

Methanol (CAS: 67-56-1)
Australia SUSMP — Poison Schedule: Not Scheduled (NS)

Isopropanol (CAS: 67-63-0)
Australia SUSMP — Poison Schedule: Not Scheduled (NS)

Acetone (CAS: 67-64-1)
Australia SUSMP — Poison Schedule: Schedule 5

Water (CAS: 7732-18-5)
Australia SUSMP — Poison Schedule: Not Scheduled (NS)

Sudan IV (CAS: 85-83-6)
Australia SUSMP — Poison Schedule: Not Scheduled (NS)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

SECTION 16: Other information

16.1 Further information/disclaimer

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013).
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code), Volume 1, Edition 7.9 (2023).
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

16.2 Preparation information

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.