

STAINLESS STEEL OIL

1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **STAINLESS STEEL OIL**
Other Names: FLAMMABLE LIQUID, N.O.S
Manufacturer's Product Code: STA5
Product Use: Protective oil for use on stainless steel panels.

COMPANY DETAILS

Company: Agar Cleaning Systems Pty. Ltd.
Address: 12-14 Cope Street, Preston, Vic. 3072
Telephone: 03 9480 3000 Facsimile: 03 9480 5100
Web: www.agar.com.au
Agar MSDS are available from this website.
E-mail: admin@agar.com.au

Emergency Telephone Number: 131 126 (Aust wide)

2 HAZARDS IDENTIFICATION

Hazardous according to criteria of Worksafe Australia.
Harmful Xn

R10 Flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

R65 Harmful, may cause lung damage if swallowed.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Chemical Entity:	CAS No.	Proportion:
white spirit	64742-88-7	30 - < 60%
(benzene content is less than 0.01% vol maximum)		
mineral oil	non-haz	30 - < 60%
perfume	not available	< 1%
brown dye	not available	< 1%

4 FIRST AID MEASURES

Poisons Information Centre: Phone 131 126

Swallowed: If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, do NOT induce vomiting due to the hazard of solvent aspiration into the lungs. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Eye: Immediately hold the eyes open and wash continuously for at least 10 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Seek medical advice. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin: Remove any contaminated clothing and shoes and flush area with water. Seek medical attention in the event of irritation.

Inhaled: Risk of side effects from inhalation is considered to be low, but if effects occur, remove patient to fresh air, rest patient and seek medical advice if necessary. Give artificial respiration if breathing stops. Administer oxygen if breathing is difficult.

5 FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Stainless Steel Oil is combustible.
Flash Point:(hydrocarbon): 36°C (Tag closed cup)
Autoignition Temperature: 250°C.
Fire Extinguishing media: Use dry chemical, carbon dioxide or foam.

Special fire-fighting procedures: Use water to cool exposed containers. If a leak or spill has ignited, use water spray to disperse the vapours and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimise breathing gases, vapour, fumes or decomposition products. Use supplied-air breathing equipment for enclosed areas. Prevent run off from entering waterways.

Unusual fire hazards: Vapours will travel to source of ignition and flash back.

Hazardous products of combustion: Thermal decomposition in a large fire may yield carbon dioxide and/or carbon monoxide and/or hydrocarbons.

6 ACCIDENTAL RELEASE MEASURES

Eliminate all sources of ignition. Ventilate area well. Clean up all spills immediately. Avoid contact with skin and eyes. Do not touch or walk through spilled material. Contain spill for salvage or absorb in inert absorbent material such as earth or sand. Place in a suitable, labelled container for waste disposal.

If spilled on clothing, it should be removed and laundered before re-use.

7 HANDLING AND STORAGE

Storage and Transport: Store in a cool, dry place. Store with all the precautions required for handling a flammable liquid. Observe State Regulations concerning the storage and handling of Dangerous Goods. Class 3 Flammable Liquids shall not be loaded in the same vehicle with: Class 1, 2.1, 2.3, 4.2, 5.1, 5.2 or 7 : Dangerous Goods.

Incompatibility (Materials to avoid for purposes of transport, handling and storage only): Oxidising agents like liquid chlorine, concentrated oxygen or sodium hypochlorite.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: None assigned for mixture.
Atmospheric Contaminant Exposure Standard for individual ingredients listed in Worksafe Australia NOHSC:1003(1995):
white spirit: TWA = - ppm (790 mg/cu.m) R (value requiring review).

STEL = -

Other Standards: mineral oil mist: TLV = 5 mg/cu.m. TWA
(Source: ACGIH.)

Engineering Controls: Mechanical ventilation: flameproof ventilation (local exhaust and/or general mechanical) is required if sufficient product is used to generate volumes of vapour that approach the flammability or Exposure Standard limits. No smoking or open lights.

Personal Protection:

Gloves - Wear nitrile gloves (e.g., Ansell Edmont Sol-Vex Nitrile NBR Gloves)

Note: Resistance of glove materials can vary. Evaluate resistance under conditions of use and maintain PPE carefully.

Eye-protection – Safety glasses to be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear pale amber liquid

Odour: Slight turpentine odour

pH = Not applicable

Vapour Pressure: Approx 3.2 mmHg (15°C)

Vapour Density: 4.57 (air = 1) (15°C)

Boiling Point: 148 - 600°C

Freezing Point: < 0°C

Flammability Limits : N/K

Flash Point: 36°C (Tag closed cup) (data for 100% white spirit)

Autoignition temp: 250°C (for 100% white spirit)

Solubility in water: Insoluble

Specific Gravity : 0.80 (20°C)

Evaporation rate = 0.16 (n-butyl acetate = 100)

% Volatile by vol: > 50%

10 STABILITY AND REACTIVITY

Stable.

Avoid all ignition sources. May form explosive mixtures with air.

Hazardous polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Health Effects: *Acute* –

Swallowed: Ingestion may cause solvent aspiration into the lungs which may cause mild to severe pulmonary injury and possibly death.

Eye: Moderate irritant to the eyes.

Skin: Principal route of exposure is usually by skin contact.

Moderate irritant to the skin on prolonged contact.

Inhaled: Inhalation may cause moderate irritation to the respiratory tract and mucous membranes. Inhalation of high vapour concentrations may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.

Health Effects - *Chronic*: Repeated or prolonged skin contact may cause swelling, redness, blistering or dermatitis. Chronic exposure to the concentrated vapour may result in headache and symptoms of central nervous system depression.

Toxicity Data: Not available for mixture

white spirit: oral toxicity (rat) LD50: >5G/kg. slightly toxic
dermal toxicity (rabbit) LD50: >2G/kg. slightly toxic

(Note: this data is from published information. Agar Cleaning Systems does not carry out animal tests).

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and degradability: -

Mobility: -

Advice: Prevent material entering into waterways.

13 DISPOSAL CONSIDERATIONS

For disposal, refer to State Land Waste Management authority.

14 TRANSPORT INFORMATION

UN No.: 1993 | Class: 3 | Packg.Group: III | Hazchem: 3[Y]

15 REGULATORY INFORMATION

Poisons Schedule Number: Schedule 5.

16 OTHER INFORMATION

AICS Listing: All components of Stainless Steel Oil are listed on the Australian Inventory of Chemical Substances (AICS).

Date: This MSDS issued: April 24, 2006

Abbreviations: N/K = Not Known

TWA = Time Weighted average

STEL = Short term exposure limit

CAS = Chemical Abstracts Service

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End of MSDS.