

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: SS-25 NC
Manufacturer's Product Code: 0019
Other Names: Non-chlorinated solvent degreaser.
Major Recommended Uses: For cleaning electric motors, tank cleaning and general degreasing.
Date of Issue: Feb 2010

Supplier's Details: Chemsearch Australia
5 Ralph Street, Alexandria
Sydney NSW 2015
Telephone Number (Office Hours): (02) 9669 0260
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SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to the criteria of ASCC.
Dangerous Goods Class: Class 3, no sub-risk.
Poisons Schedule: Schedule 5.

Risk Phrases: Flammable.
Harmful: May cause lung damage if swallowed and aspirated into lungs.
Irritant. May cause sensitisation by skin contact in individuals sensitive to orange oils.
Toxic to aquatic organisms. May cause long-term adverse effects in aquatic environments.

Safety Phrases: Keep out of reach of children.
Avoid contact with the skin; wear suitable gloves for repeated or prolonged use.
Do not breathe vapour.
If swallowed, do not induce vomiting; seek medical advice immediately and show label.
Avoid release to the (aquatic) environment.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

<u>Chemical Entity</u>	<u>CAS No</u>	<u>Proportion</u>	<u>Synonyms</u>
Mineral spirits	64742-88-7	>60%	Solvent naphtha, medium aliph.
Aliphatic petroleum distillate	64742-47-8	30-60%	Hydrotreated light distillates
d-Limonene	5989-27-5	<10%	Orange terpenes
'Ingredients determined not to be hazardous'		to 100%	

SECTION 4 – FIRST AID MEASURES

Skin: Remove contaminated clothing and flush affected skin and hair with running water. Seek medical attention if irritation develops or persists. Wash clothing and clean shoes before reuse.

Eye: Hold eyelids apart and flush the eye continuously with running water for at least 15-minutes. Seek medical attention if irritation develops or persists.

Inhalation: Remove person to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Ingestion: Do not induce vomiting. Give 2 or 3 glasses of water. If vomiting occurs, give fluids again. Seek medical attention.

First Aid Facilities: An eye wash station and normal washroom facilities should be available.

Advice to Doctor: Do not induce vomiting. Gastric lavage is indicated. Keep patient's head below hips to avoid pulmonary aspiration of liquid into lungs.

Additional Information: Medical conditions aggravated by exposure are pre-existing skin and respiratory disorders such as asthma, emphysema and dermatitis. May cause skin sensitisation by skin contact. Target organs: central nervous system.

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SECTION 5 – FIRE FIGHTING MEASURES

Product is flammable and spills may be slippery.

Suitable Extinguishing Media: In the event of a fire, powder, foam, and CO₂ are the recommended extinguishing agents.

Special Protective Equipment and Precautions for Fire Fighters: Fire fighters should wear self-contained breathing apparatus and full protective gear when in confined area. Extinguishing media should be chosen based on the nature of the surrounding fire.

Fire/Explosive Hazards: Eliminate all sources of ignition. Vapours may travel considerable distances to a source of ignition and may accumulate in low areas. Cool fire-exposed containers with water to prevent rupture. Forms oxides of carbon, fumes and acrid smoke on thermal decomposition.

Hazchem Code: 3[Y]

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Wear appropriate protective clothing. Floor may be slippery.

Methods and Materials for Containment and Clean Up: Wear appropriate protective clothing and equipment to minimise skin and inhalation exposure (See Section 8). Extinguish or remove all sources of ignition, increase ventilation, and stop leak if safe to do so. Contain spill if possible. Evacuate all unnecessary personnel. Clean up the spill with an inert absorbent such as vermiculite, sand or dirt. Use clean non-sparking tools to collect the material and place into a suitable labelled container - mop up the remaining material and place into the same container.

Prevent product from contaminating soil and waterways and from entering sewerage and drainage systems. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority. Confine spill if possible and remove from surface by skimming or with suitable absorbents.

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SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling: Observe all precautions stated on the product label, and follow industry safety regulations. Repeated or prolonged skin exposure without protection should be prevented.

Maintain high standards of personal hygiene - i.e. always wash hands prior to eating, drinking, smoking or using toilets. Keep away from open flames, hot surfaces and sources of ignition and sparks - product is flammable. Open containers cautiously as contents may be under pressure. Avoid inhalation of vapour and mists, and use only in a well ventilated area. Do not store or use in confined spaces.

Conditions for Safe Storage: Always store original container indoors in a cool, dry, well-ventilated area in an upright position. Store below 38°C. Keep container closed when not in use, and keep away from direct sunlight, heat or flames. Take precautions against static electricity discharges and use proper grounding procedures. Do not pressurise, cut, heat or weld containers. Avoid contact with incompatible materials that support combustion, such as strong oxidising agents.

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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: None established for this mixture. The ASCC recommends exposure to 'refined mineral oil mist' be kept under TWA 5mg/m³.

Engineering Controls: General ventilation is normally adequate, although local exhaust ventilation (drawing vapours/mists away from workers breathing zone) is strongly recommended if vapours or mists are generated and vapour exposure exceeds Exposure Standards and when using in a confined space.

(Refer to AS 1940 - *The storage and handling of flammable and combustible liquids* and AS 2430 - *Explosive gas atmospheres* for further information concerning ventilation requirements.)

Personal Protective Equipment:

Eye/Face Protection: Avoid contact. Safety glasses with side shields or goggles should be worn if eye contact is likely. If splashing of material is likely, a face shield should be worn. AS1336 and AS/NZS1337 should be consulted for information on eye protection.

Skin Protection: Wear appropriate impervious chemical resistant gloves – e.g. nitrile, neoprene, PVC - should be worn when handling this product, especially if repeated or prolonged skin contact is anticipated. Reference should be made to *AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance*. Wear appropriate clothing including chemical resistant apron if clothing is likely to be contaminated.

Respiratory Protection: Whilst not required in normal conditions of use with sufficient ventilation, if engineering controls are not effective in controlling airborne exposure then an air purifying respirator with a combined Organic Vapour/Class P1 filter is recommended. The respirator should meet the requirements outlined in AS/NZS 1715 and AS/NZS 1716.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A transparent, colourless, non-viscous liquid with a hydrocarbon odour.
pH (100%):	Not measurable
Boiling Point:	193°C
Melting Point:	Not applicable
Solubility in Water (g/L):	Negligible
Specific Gravity:	0.79
Flashpoint:	40°C
Flashpoint Method:	P.M.C.C.
Flashpoint Limits:	L.E.L. – 1.5; U.E.L. - Not available
% Volatiles by Volume:	100%
Vapour Density:	6.6 (Air = 1)
Evaporation Rate:	<0.2 (Butyl acetate = 1)

SECTION 10 – STABILITY AND REACTIVITY

<u>Stability:</u>	Stable.
<u>Hazardous Polymerisation:</u>	Will not occur.
<u>Conditions/Materials to Avoid:</u>	Incompatible with strong oxidising agents such as chlorine bleach and concentrated hydrogen peroxide; acids; and iodine pentafluorethylene.
<u>Hazardous Decomposition Products:</u>	Forms oxides of carbon, fumes and acrid smoke on thermal decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:

Acute - Swallowed: Can cause nausea, cramps, vomiting and diarrhoea. Aspiration of this product into lungs may cause lung damage.

Acute - Eye: May cause irritation seen as redness, tearing and blurred vision.

Acute - Skin: May cause irritation seen as reddening and defatting. May cause sensitisation in individuals sensitive to products containing orange oils.

Acute - Inhaled: May cause nasal and respiratory irritation, dizziness, weakness and nausea. Inhalation of high concentrations of vapour can cause anaesthesia, drowsiness, unconsciousness and central nervous system effects.

Chronic: May cause skin sensitisation by skin contact in sensitive individuals.

Target Organs: Central nervous system.

Product Contains Chemicals Listed as Carcinogens by:
 International Agency for the Research of Cancer (IARC): NO
 Other: NO

SECTION 12 – ECOLOGICAL INFORMATION

Persistence/Degradability: No specific toxicology data on this product is available. When used as directed, no adverse environmental effects are foreseen.

Prevent product from entering drains, waterways, sewers and bodies of water - d-limonene is toxic to aquatic organisms and may cause adverse effects in the aquatic environment.

Mobility in Soil: The product is not soluble in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste in a closed, labelled container in accordance with EPA, local, state and Commonwealth laws. Do not dispose of into natural waterways as it may cause adverse effects to aquatic organisms. Empty containers can be land filled after cleaning, when in compliance with local regulations and after thorough rinsing.

SECTION 14 – TRANSPORT INFORMATION

UN Number: UN1993

UN Proper Shipping Name: Flammable liquids, n.o.s.

Transport Hazard Class: Dangerous Goods Class 3. No sub-risk.

It is incompatible in a placard load with any of the following: - Class 1, Explosives; - Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk; - Class 2.3, Toxic Gases; - Class 4.2 Spontaneously Combustible Substances; - Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides; - Class 7 Radioactive Substances.

Packaging Group: Packaging Group III.

Hazchem Code: 3[Y].

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule: Schedule 5;



IRRITANT

SECTION 16 – OTHER INFORMATION

March 2008 - Initial copy of 16-header MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.