

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	SS-95
Manufacturer's Product Code	0136
Other Names	Solvent cleaner/degreaser.
Major Recommended Uses	Solvent cleaner/degreaser for use on electrical equipment and metals
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	September 2008

### SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk	Class 6.1; no sub-risk.
Poisons Schedule	Schedule 6.
Risk Phrases	Possible risk of irreversible effects. Harmful - may cause lung damage if swallowed & aspirated into lungs. Irritating to skin and eyes – may cause sensitisation by skin contact. Vapours may cause drowsiness and dizziness. Prolonged and repeated contact without PPE may cause cancer. Toxic to aquatic organisms and may cause long term adverse effects in aquatic environment.
Safety Phrases	Keep out of reach of children. Avoid exposure & do not breathe vapour—obtain instructions before use. Wear suitable protective clothing and gloves . Seek medical advice in case of accident or if you feel unwell (show label where possible). Avoid release to the environment.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients			
Chemical Entity	CAS No	Proportion	Synonyms
ALIPHATIC PETROLEUM DISTILLATES	64742-88-7	30-60%	Med aliph. solvent naphtha
TRICHLOROETHYLENE	79-01-6	10-30%	Acetylene trichloride
TETRACHLOROETHYLENE	127-18-4	10-30%	Perchloroethylene, perc
D-LIMONENE	5989-27-5	<10%	Orange terpenes

### SECTION 4 – FIRST AID MEASURES

Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek medical attention if irritation develops.
Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor, or for at least 15-minutes.
Inhalation	If inhaled, remove from contaminated area to fresh air. Apply artificial respiration if not breathing.
Ingestion	If swallowed, do NOT induce vomiting.
First Aid Facilities	General eyewash and normal washroom facilities.
Advice to Doctor	Treat the patient symptomatically. Aspiration of the product during vomiting can cause pulmonary damage or death. Keep patient's head below hips to prevent this. Gastric lavage should be considered.
Additional Information	Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema and dermatitis, and pre-existing liver and kidney diseases. Target organs: Central nervous system, liver, and kidneys. The primary route of entry into the body is via inhalation.

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### SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	In the event of a fire, dry-chemical, foam and CO <sub>2</sub> are the recommended extinguishing agents. Use water spray to cool storage tanks, pipelines and fire-exposed surfaces. Do not use water jets.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear.
Fire/Explosive Hazards	Can release carbon dioxide, carbon monoxide, hydrogen chloride and phosgene at decomposition temperature.
Hazchem Code	2X

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing.	
Methods and Materials for Containment and Clean Up	Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. If spill is large, evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container for subsequent disposal. Dispose of waste according to the Environmental Protection Authority, federal, state and local regulations. Prevent spill from entering any waterway. Contact the EPA or your local Waste Management Authority if large quantities of this material enter any waterway.

### SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Observe precautions stated on product label, and follow industry safety regulations. Eating and smoking should be prohibited where the preparation is used. Do not use around welding or other ignition sources. Build up of mists or vapours in the atmosphere must be prevented - avoid breathing in spray or mists or vapours. Repeated or prolonged skin exposure without protection should be prevented. It is essential that all that come into contact with this material maintain high standards of personal hygiene - i.e. washing hands prior to eating, drinking, smoking or using toilets.
Conditions for Safe Storage	Store in a dry, well-ventilated area away from heat, direct sunlight, sources of ignition, clothing and foodstuffs. Keep original containers closed when not in use and securely sealed and protected against physical damage. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	Not established for this mixture. The exposure limits for individual components follow: Oil mist: TWA - 5mg/m <sup>3</sup> Trichloroethylene TWA - 50ppm (~270mg/m <sup>3</sup> ); STEL 200ppm (~1,080mg/m <sup>3</sup> ) Tetrachloroethylene TWA - 50ppm (~335mg/m <sup>3</sup> ); STEL 150ppm (~1,020mg/m <sup>3</sup> )
Engineering Controls	General exhaust is usually adequate, although local ventilation is recommended to control exposure from operations that can generate mists or vapours, particularly in enclosed areas. Where airborne levels cannot be kept below the exposure limits, an approved organic respirator should be worn.
Personal Protective Equipment	
Eye/Face Protection:	Wear safety glasses with side or face shields if the method of use presents the likelihood of eye contact. AS1336 and AS/NZS1337 should be consulted for information on eye protection.
Skin Protection	Impervious viton or PVA/PVC gloves should be worn. Refer to AS/NZS 2161 for information on glove selection. Enclosed footwear and overalls or a chemical resistant apron should be worn.
Respiratory Protection	If misting is likely to occur, or if used in poorly ventilated areas where exposure will be above the TLV, an approved organic vapour respirator meeting the requirements outlined in AS/NZS 1715 and AS/NZS 1716 should be used.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A clear, colourless, non-viscous liquid with an orange/chlorinated solvent odour.
pH	Not applicable
Vapour Pressure	<40mm Hg
Vapour Density	Not available
Boiling Point	87°C
Melting Point	Not applicable

Solubility in Water (g/L)	Negligible
Specific Gravity	1.04 (Water = 1)
Flashpoint	Not flammable
Flashpoint Method:	P.M.C.C.
Flammability Limits:	Not available
% Volatiles by Volume	100%
Evaporation Rate	>0.1 (Butyl acetate = 1)

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### SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Incompatible with strong alkalis, acids, selected amines and aluminium (in the presence of water and close contact under pressure)
Hazardous Decomposition Products	Oxides of carbon, hydrogen chloride and phosgene.

### SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute - Swallowed	May cause irritation of the gastrointestinal system with nausea, headache, vomiting and loss of consciousness. Aspiration into lungs can cause lung damage.
Acute - Eye	Eye contact may cause irritation with reddening, tearing and stinging. May cause irreparable eye damage.
Acute - Skin	May cause skin irritation. Symptoms include redness and itchiness.
Acute - Inhaled	Inhalation may cause respiratory system irritation, headache, nausea, dizziness, central nervous system depression and loss of consciousness.
Chronic	Repeated or prolonged skin contact may lead to dermatitis and may cause sensitisation. Chronic exposure can cause central nervous system depression, liver and kidney damage and the possibility of serious irreversible effects.
Target Organs	Central nervous system, liver, and kidneys.

### SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. Avoid contaminating waterways. Do not allow product to enter drains, waterways or sewers as product is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment	
Persistence/Degradability	No data is available.
Mobility	Not soluble in water.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Do not dispose of into waterways. Dispose of waste according to Environmental Protection Authority, federal, state and local regulations. Empty containers can be land filled after cleaning, when in compliance with local regulations

### SECTION 14 – TRANSPORT INFORMATION

UN Number	UN2810
UN Proper Shipping Name	Toxic liquid, organic N.O.S.
Transport Hazard Class	ADG Class 6.1, no sub-risk. Incompatible in a placard load with any of the following: - Class 1; Class 3, if the Class 3 dangerous goods are nitromethane; and food and food packaging in any quantity.
Packaging Group	III
Hazchem Code	2X

### SECTION 15 - REGULATORY INFORMATION

Poisons Schedule: Schedule 6



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### SECTION 16 – OTHER INFORMATION

Initial copy of 16-heading 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.

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