

Section 1 - IDENTIFICATION

Product name	Wave Runner - Normal Viscosity
Other names	Temporary solder mask.
Recommended use/s	For industrial applications in the electronics industry. Soldering.
Supplier name	ChemTools Pty. Ltd.
Address	Unit 4, 3 Pullman Place, Emu Plains, NSW, 2750, Australia
Telephone number	+61 1300 556 186
Fax	+61 (0)2 4735 6575
Emergency telephone number	Australia: Poisons Information Centre 13 1126 International: Infotrac (708) 918-1900

Section 2 - HAZARDS IDENTIFICATION

General hazard statement	Classified as non-hazardous according to the criteria of NOHSC
Hazard classification	Hazardous Substance. Non Dangerous Goods.
Risk phrase(s)	R20/22 – Harmful by inhalation and if swallowed R36/37/38 – Irritating to eyes, respiratory system and skin.
Safety phrase(s)	S2 – Keep out of the reach of children S24 – Avoid contact with the skin S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Routes of entry	Inhalation. Ingestion.
Potential acute health effects	<u>Inhalation:</u> Fumes produced by this product may be hazardous in case of inhalation. <u>Skin:</u> This product may be hazardous in case of skin contact (irritant, sensitiser). Skin inflammation is characterised by itching, scaling, reddening, or, occasionally, blistering. <u>Eyes:</u> This product may be hazardous in case of eye contact (irritant)
Potential chronic health effects	<u>Ingestion:</u> Fumes and/or dusts produced by this product may be hazardous in case of ingestion. Fumes produced by this product may be hazardous in case of ingestion, or inhalation. This product may be hazardous in case of skin contact (irritant, sensitiser), of eye contact (irritant)

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Chemical Name	CAS Number	Proportion % w/w
Ammonia	Ammonia	7664-41-7	<0.2%

Section 4 - FIRST AID MEASURES

Standard SUSDP First Aid Statement	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 1126 (Australia).
Description of necessary measures according to routes of exposure	
Eye contact	Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention.
Skin contact	Prolonged and repeated contact with bare skin may cause irritation. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap.
Hazardous skin contact	No additional information.
Inhalation	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
Hazardous inhalation	Fumes in high concentrations: May be harmful if inhaled. If the victim is not breathing, perform mouth-to-mouth resuscitation. SEEK IMMEDIATE MEDICAL ATTENTION.
Ingestion	Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING BY sticking finger in throat. Lower the head so that the vomit will not re-enter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.



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Hazardous ingestion No additional information
Indication of medical attention and special treatment needed including description of most important symptoms, acute and delayed
Aggravated medical conditions caused by exposure No data found.

Section 5 - FIREFIGHTING MEASURES

Suitable extinguishing media Small fire: Use water spray, carbon dioxide, foam, dry chemical powder.
Large fire: Use water spray, fog or foam.
Hazards from combustion products Products are carbon oxides; carbon monoxide and carbon dioxide.
Special protective precautions
Special equipment for fire fighters Use an approved/certified respirator or equivalent
Hazchem Code
Special remarks on fire hazards The material may burn if exposed to direct flame. Non explosive in presence of shocks, of heat.

Section 6 - ACCIDENTAL RELEASE MEASURES

Emergency procedures Small spill and leak – Soak up spill with sand or other absorbent material. Place in a suitable container for disposal.
Large spill – Our data base contains no additional information in case of a large spill and/or leak of the product.
Methods and materials for containment and clean up Dispose of spilled product according to Federal, State and Local Environmental Regulations.

Section 7 - HANDLING AND STORAGE

Precautions for safe handling Wear suitable protective clothing. Use in a well ventilated area. When using do not eat, drink or smoke. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Conditions for safe storage, including any incompatibilities Keep in a cool place.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards Ammonia
TWA: 25 ppm from NOHSC [1995 3rd Ed]
TWA: 17 mg/m³ from NOHSC (TLV) [1995 3rd Ed]
STEL: 35 from NOHSC [1995 3rd Ed]
STEL: 24 mg/m³ from NOHSC [1995 3rd Ed]

Biological limit values
Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Personal protective equipment HANDLING: Protection not normally required.
GENERAL USE: Protection not normally required
Personal protection in case of a large spill No additional information.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape)	Thick creamy green liquid.
Odour	Slight ammonia odour.
pH	9-10.
Vapour pressure	Not available
Vapour density	Not available
Boiling point/range	100 ° C
Freezing/melting point	0 ° C
Solubility (specify solvent)	Dilutable in water (not soluble)
Specific gravity or density	Approx. 1
Flashpoint	Not applicable
Flammability	
Upper and lower flammable limits	
Ignition temperature	
Viscosity	200-500 Kcps
Ionicity (in water)	Non-ionic
Dispersion properties	Dispersed in cold water, hot water.
Evaporation rate	Lower than 1
Water/Oil Dist. Coeff.	
Corrosivity	Non corrosive.

Section 10 - STABILITY AND REACTIVITY

Chemical stability	The product is stable.
Conditions of instability	Stable in normal conditions.
Conditions to avoid	
Incompatible materials	None known.
Hazardous decomposition products	None known.
Hazardous reactions	
Hazardous polymerisation	

Section 11 - TOXICOLOGICAL INFORMATION

Health effects from likely routes of exposure	
Toxicity to animals	<u>ammonia</u> Inhalation Rat: LC ₅₀ : 2000 ppm/4hr. Investigated as a tumorigen, mutagen. <u>Ammonium hydroxide</u> Oral Rat: LD ₅₀ : 350 mg/Kg Eye Rabbit: Standard Draize 250µg severe. Investigated as a mutagen
Chronic effects on humans	Carcinogenic effects: None [IARC]
Other toxic effects on humans	
Special remarks on chronic effects on humans	Overexposure to fumes may cause irritation to the respiratory tract, digestive system and to the eyes. Repeated and prolonged contact may cause skin irritation, dermatitis and/or an allergic skin reaction (sensitisation) in susceptible individuals.
Special remarks on other toxic effects on humans	Prolonged and repeated contact with bare skin may cause irritation or dermatitis.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Not available.
Persistence and degradability	Not available.
Products of biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the products of biodegradation	The products of degradation are less toxic than the product itself.
Mobility	Not available.



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Environmental fate

Not available.

Bioaccumulative potential

Not expected to significantly bioaccumulate.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers
Special precautions for landfill or incineration

Waste must be disposed of in accordance with local regulations.

Section 14 - TRANSPORT INFORMATION

Dangerous Goods Classification

Not a Dangerous Good (ADG Code)

UN Number

Not applicable

UN Proper Shipping Name

Not applicable

Class and subsidiary risk

Not applicable

Packing Group

Not applicable

Special precautions for user

Hazchem Code

Not applicable

IMDG Classification

Not controlled

IATA Classification

Not controlled

ADR/RID Classification

Not controlled (Europe)

Section 15 - REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation

Poisons Scheduling (Australia SUSDPA)

Based on the ingredients this product is not a scheduled poison.

Additional national and/or international regulatory information

Section 16 - OTHER INFORMATION

Date of preparation or last revision of this MSDS

March 2007

Key/legend to abbreviations and acronyms used in the MSDS

IATA – International Air Transport Association
WHMIS – Workplace Hazardous Materials Information System
HMIS – Hazardous Materials Information System
ACGIH – American Conference of Government Industrial Hygienists
IARC – Inter Agency Regulatory Council
NOHSC – National Occupational Health and Safety Commission (Australia)
SUSDPA – Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
STEL – Short Term Exposure Limit
OSHA – Occupational Safety and Health Administration
NTP – National Toxicology Program
PEL – Permissible Exposure Limit
TWA – Time Weighted Averages TLV - Threshold Limit Value
NIOSH – National Institute of Occupational Health and Safety