

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>SUPPLIER:</b>	Minehan Agencies Pty Ltd		
<b>ADDRESS:</b>	29 Camuglia Street GARBUTT Townsville Queensland Australia 4814		
<b>Trade Name:</b>	<b>BIO-S-SOLVENT DEGREASER</b>		
<b>TELEPHONE:</b>	(07) 4774 4626	<b>FAX:</b>	(07) 4774 4616
<b>AH EMERGENCY TELEPHONE:</b>	13 1126 in Australia	<b>ABN:</b>	21 010 895 100
<b>Substance:</b>	solvent	<b>Product Use:</b>	solvent degreaser
<b>Creation Date:</b>	OCT 2010	<b>Revision Date:</b>	OCT 2015
<b>Product Code:</b>		<b>E-mail</b>	inquiry@minehanagencies.com.au

## SECTION 2 – HAZARDS IDENTIFICATION

- This product is **NOT classified as HAZARDOUS** according to criteria of the National Occupational Health and Safety Commission Australia.
- This product is **NOT classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code.
- This product is **NOT classified as a Scheduled Poison** according to the SUSDP.

### Approved Criteria

<b>Classification</b>	None allocated	<b>ADG Classification</b>	none allocated
<b>UN Number</b>	none allocated	<b>ADG Subsidiary Risk</b>	none allocated
<b>Shipping Name</b>	none allocated	<b>Packing Group</b>	none allocated
<b>Hazchem Code</b>	none allocated		
<b>SUSDP Classification</b>	not scheduled		
<b>EMERGENCY OVERVIEW</b>			
<b>Colour</b>	clear/straw	<b>Odour</b>	citrus
<b>Physical Description</b>	Liquid	<b>Viscosity</b>	Non-viscous liquid
<b>Major Health Hazards</b>	None known		

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances".

Ingredients:	CAS Number:	Proportion:	Exposure Standards TWA	Exposure Standards STEL
fatty acid methyl esters (soy)	67784-80-9	> 60% w/w	not set	not set
Ingredients determined to be non-hazardous (mixture of surfactants, glycol ethers and d-limonene)	Various	30 - 60 % w/w	not set	not set

The **TWA** exposure value is the Time Weighted Average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The **STEL** (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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## SECTION 4 – FIRST AID MEASURES

<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 03 474 7000).
<b>First Aid Facilities</b>	Normal washroom facilities.
<b>Skin contact</b>	Wash skin with plenty of water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness develops.
<b>Eye contact</b>	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).
<b>Ingestion</b>	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
<b>Inhalation</b>	Remove victim to fresh air away from exposure - avoid becoming a casualty. Seek medical advice (e.g. doctor).
<b>Advice to Doctor</b>	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.
<b>Aggravated Medical Conditions</b>	None known.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Combustible. In use, may form flammable/explosive vapour-air mixture.
<b>Extinguishing Media</b>	Use carbon dioxide (CO <sub>2</sub> ) fire extinguisher, foam, dry chemical powder, water fog or fine water spray.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.
<b>Flash Point</b>	> 100 ° C

## SECTION 6 – ACCIDENTAL RELEASE MEASURES




<b>Emergency Procedures</b>	No HAZCHEM code.
<b>Occupational Release</b>	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. For large spills, or tank rupture, consider initial evacuation distance of 200 metres in all directions. Eliminate any ignition sources. Stop leak if safe to do so. If available, use water spray to disperse vapour. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

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## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.
<b>Storage</b>	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Exposure Limits</b>	National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission: <b>Time-weighted Average (TWA):</b> None established for specific product. See <b>SECTION 3</b> for Exposure Limits of individual ingredients. <b>Short Term Exposure Limit (STEL):</b> None established for specific product. See <b>SECTION 3</b> for Exposure Limits of individual ingredients.
<b>Biological Limit Value</b>	None established for product.
<b>Engineering Controls</b>	Avoid generating mists of the product. Use only in a well-ventilated area.
<b>Personal Protective Equipment</b>	Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;
<b>Eye Protection</b>	The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them.
	
<b>Skin Protection</b>	Wear gloves. Overalls, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.
 	
<b>Protective Material Types</b>	Material suitable for detergent contact – Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.
<b>Respirator</b>	Not required for normal cleaning operations with good ventilation. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	liquid	<b>Colour</b>	clear/straw
<b>Odour</b>	citrus odour	<b>Specific Gravity</b>	0.8 - 0.9 @ 25 °C
<b>Boiling Point</b>	> 200 °C	<b>Freezing Point</b>	Not available
<b>Vapour Pressure</b>	Not available	<b>Vapour Density</b>	Not available
<b>Flash Point</b>	> 100 °C	<b>Flammable Limits</b>	None
<b>Water Solubility</b>	Miscible	<b>pH</b>	8.5 - 9.5 @ 1% solution
<b>Volatile Organic Compounds (VOC)</b>	Not available	<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Viscosity</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Per Cent Volatile</b>	Ca 20 % v/v

## SECTION 10 – STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable at normal temperatures and pressure.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Oxidizing agents.
<b>Hazardous Decomposition Products</b>	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.
<b>Hazardous Reactions</b>	None known.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>PRODUCT MIXTURE INFORMATION</b>	
<b>Local Effects</b>	Mild irritant: eye, skin, inhalation and ingestion.
<b>Target Organs</b>	Eyes, mucous membranes, skin.
<b>POTENTIAL HEALTH EFFECTS</b>	
<b>Ingestion</b>	
<b>short term exposure</b>	Harmful if swallowed. Ingestion of this product may cause nausea, vomiting, abdominal pain and irritation to the mouth, throat and stomach. May affect behavior (central nervous system depression, depression) and metabolism.
<b>long term exposure</b>	No information available.
<b>Skin contact</b>	
<b>short term exposure</b>	Mild irritant. Skin contact can cause redness, itching, irritation, if extended contact with concentrated product.
<b>long term exposure</b>	Prolonged and repeated skin contact with undiluted solutions may induce eczematoid dermatitis.
<b>Eye contact</b>	
<b>short term exposure</b>	Eye contact will cause stinging, blurring, tearing, pain.
<b>long term exposure</b>	No information available.
<b>Inhalation</b>	
<b>short term exposure</b>	Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation.
<b>long term exposure</b>	No information available.
<b>Carcinogen Status</b>	
<b>NOHSC</b>	No significant ingredient is classified as carcinogenic by NOHSC.
<b>NTP</b>	No significant ingredient is classified as carcinogenic by NTP.
<b>IARC</b>	No significant ingredient is classified as carcinogenic by IARC.
<b>Medical conditions aggravated by exposure</b>	No information available.

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## CLASSIFICATION OF INDIVIDUAL INGREDIENTS

NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See SECTION 3 for actual proportions of ingredients present in this product.

Ingredients	R-Phrases.
non-hazardous ingredients	none allocated

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Fish toxicity</b>	None available for specific product.
<b>Algae toxicity</b>	None available for specific product.
<b>Invertebrates toxicity</b>	None available for specific product.
<b>Toxicity to Bacteria</b>	None available for specific product.
<b>OECD Biological degradation</b>	Individual components stated to be biodegradable.
<b>General</b>	Product miscible in all proportions with water. DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

## SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Disposal</b>	To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septics, and grey water systems. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.
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## SECTION 14 – TRANSPORT INFORMATION

<b>UN Number</b>	none allocated	<b>ADG Classification</b>	none allocated
<b>Shipping Name</b>	none allocated	<b>ADG Subsidiary Risk</b>	none allocated
<b>Hazchem Code</b>	none allocated	<b>Packing Group</b>	none allocated
<b>Packaging Method</b>	none allocated	<b>Special Provisions</b>	none allocated
<b>Segregation</b>	none allocated		

## SECTION 15 – REGULATORY INFORMATION

<b>AICS</b>	All ingredients present on AICS.
<b>Labeling Details</b>	
<b>HAZARD</b>	none allocated
<b>RISK PHRASES</b>	none allocated
<b>SAFETY PHRASES</b>	none allocated
<b>SUSDP</b>	none allocated
<b>ADG Code</b>	none allocated

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## SECTION 16 – OTHER INFORMATION

<b>Acronyms</b>	
<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs and Poisons.
<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>CAS Number</b>	Chemical Abstracts Service Registry Number.
<b>UN Number</b>	United Nations Number.
<b>R-Phrases</b>	Risk Phrases.
<b>HAZCHEM</b>	An emergency action code of numbers and letters which gives information to emergency services.
<b>NOHSC</b>	National Occupational Health and Safety Commission.
<b>NTP</b>	National Toxicology Program (USA).
<b>IARC</b>	International Agency for Research on Cancer.
<b>AICS</b>	Australian Inventory of Chemical Substances.
<b>TWA</b>	Time Weighted Average
<b>STEL</b>	Short Term Exposure Limit

<b>Literature References</b>	<p>List of Designated Hazardous Substances [NOHSC:10005(1999)]</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail – Sixth Edition.</p> <p>Standard for the Uniform Scheduling of Drugs and Poisons.</p> <p>National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]</p> <p>Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers.</p> <p>HSIS – Hazardous Substance Information System – National Worksafe Data Base.</p>
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<b>Revision Information</b>	New Issue to standard : 2nd Edition [NOHSC:2011(2003)].
<b>Note</b>	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
<b>Contact Point</b>	Regulatory Affairs Manager. <b>Telephone</b> (07) 4774 4626
<b>Issue Date</b>	Oct 2010 <b>Supersedes Issue Date</b> 1 <sup>ST</sup> Issue

**Disclaimer**

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product and in particular how to safely handle and use the product in the workplace.

Since Minehan Agencies Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Minehan Agencies Pty Ltd.