MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: DARATHENE PLUS
Manufacturer's Product Code: 5050
Other Names: Electrical and electronic components cleaner, lubricant and moisture displacer.
Major Recommended Uses: For the cleaning and light lubrication of electrical and electronic equipment.
Date of Issue: Feb 2010

Supplier's Details: Certilab
7 Ralph Street, Alexandria
Sydney NSW 2015
Telephone Number (Office Hours): (02) 9669 0262
Fax Number: (02) 9693 1562
Emergency Telephone Number: (02) 9214 0755

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SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Not classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk: Class 2.1, no sub-risk.
Poisons Schedule: None allocated.
Risk Phrases: Flammable. (The residual coating is not flammable though.)
Safety Phrases: Keep out of the reach of children.
Keep away from sources of ignition.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS No	Proportion	Synonyms
'INGREDIENTS DETERMINED NOT TO BE HAZARDOUS'		100%	

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SECTION 4 – FIRST AID MEASURES

Skin: Wash affected areas with plenty of soap and water for several minutes. Remove contaminated clothing and shoes. Seek medical attention if irritation develops.

Eye: Rinse eyes thoroughly with water for several minutes. Remove any contact lenses and continue flushing with water. Seek medical attention if irritation develops.

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

Ingestion: Give 3-4 glasses of water, but do NOT induce vomiting. If vomiting occurs, give fluids again. Seek medical attention if discomfort occurs, and keep patient warm and still.

First Aid Facilities: General eyewash and washroom facilities.

Advice to Doctor: There is no specific antidote. Treat the patient symptomatically. Depending on the amount ingested, gastric lavage should be considered. Keep patient's head below hips to avoid pulmonary aspiration of liquid into lungs.

Additional Information: Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema and dermatitis. Target organs: Central nervous system, heart and liver. The primary routes of exposure are skin and eye contact; the primary route of entry 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 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.

Fire/Explosive Hazards: Use water spray to cool fire-exposed containers to prevent pressurised containers from bursting.

Hazchem Code: 2Y

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean Up: Due to the nature of aerosol packaging, a large spill is unlikely. For a small spill, ventilate the area and absorb with an inert material or cloth. Dispose of waste in a closed, labelled container in accordance with local, state and Commonwealth laws. Typical disposal is to wrap the empty aerosol container in several layers of newspaper and dispose of in the garbage. Do not puncture or incinerate the can.

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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. Use with caution around heat, sparks, pilot lights, static electricity and open flame. Do not spray on a naked flame or any incandescent material.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area. Store below 49°C. Do not store in direct sunlight, or near sources of heat, sparks or flames.

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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: Not established for this mixture. The NOHSC recommended TWA exposure limit for refined mineral oil mist is 5mg/m³. The hydrocarbon propellant has a TWA of 800ppm (1900mg/m³)

Engineering Controls: General exhaust is usually adequate, although local ventilation is recommended to control exposure from poorly ventilated operations where mists or vapours can build-up to levels exceeding the recommended exposure limits.

Personal Protective Equipment:
Eye/Face Protection: Wear safety glasses with 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: Solvent resistant gloves should be worn if repeated or prolonged skin contact is likely. Protective barrier creams can be applied to exposed skin. Refer to AS/NZS 2161 for information on glove selection. Wear general duty work clothing and shoes. Refer to AS2919 and AS/NZS2210 for advice on clothing and protective footware.

Respiratory Protection: None required under normal conditions of use. 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 or face mask meeting the requirements outlined in AS/NZS 1715 and AS/NZS 1716 should be used.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A slightly opaque, non-viscous liquid with a solvent odour
pH:	Not applicable
Vapour Pressure:	20mm Hg at 21ºC
Boiling Point:	177ºC
Melting Point:	Not applicable
Solubility in Water (g/L):	Not soluble

Specific Gravity:	0.785 (Water = 1)
Flashpoint:	41°C (bulk liquid; residue concentrate is NOT flammable)
Flashpoint Method:	T.C.C.
Flammability Limits:	LEL: 0.9%; UEL: 7.0%
Evaporation Rate:	0.17(BU A/C = 1)
% Moisture:	0.5% max

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous Polymerisation:	Will not occur.
Conditions/Materials to Avoid:	Avoid strong oxidising agents, strong acids and strong bases.
Hazardous Decomposition Products:	Oxides of carbon, nitrogen, sulphur, barium and smoke.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:

Acute - Swallowed: May cause irritation with possible nausea, headache, vomiting, and drying of the mouth and throat.

Acute - Eye: May cause irritation seen as tearing and redness, and a burning sensation.

Acute - Skin: Unlikely to be an irritant on brief or occasional exposure, however prolonged contact will dry and de-fat the skin and may cause irritation seen as itching and redness.

Acute - Inhaled: May cause respiratory irritation seen as coughing and sneezing. At low vapour concentrations, no harmful effects are expected. Exposure to high concentrations may cause dizziness, headache, anaesthesia and other central nervous system effects.

Chronic: Prolonged contact will dry and de-fat the skin and may cause irritation seen as itching and redness. May have anaesthetic and other central nervous system effects.

Target Organs: Central nervous system, heart, and liver.

Product Contains Chemicals Listed as Carcinogens by:

International Agency for the Research of Cancer (IARC):	NO
Other:	NO

SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. Do not allow product to enter drains, waterways or sewers.

Persistence/Degradability:	No specific information.
Mobility in Soil:	Not soluble in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not incinerate or puncture aerosol cans. If aerosol can develops a leak, allow to fully discharge before disposal. Prevent disposal in sewers and waterways. Dispose of in accordance with all Commonwealth, State and Local government requirements. Typical disposal is to wrap the empty aerosol container in several layers of newspaper and dispose of in the garbage.

SECTION 14 – TRANSPORT INFORMATION

UN Number:	UN1950
UN Proper Shipping Name:	Aerosol
Transport Hazard Class:	ADG Class 2.1, no sub-risk. Incompatible in a placard load with any of the following: - Class 1; Class 4; Class 5; and Class 7.
Packaging Group:	Not applicable.

Hazchem Code: 2Y

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SECTION 15 - REGULATORY INFORMATION

Poisons Schedule: None allocated.

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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. CERTILAB 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.