

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: AR-19
Manufacturer's Product Code: 5002
Other Names: Aerosol silicon-based cleaner and protective coating
Major Recommended Uses: As a cleaner and polish for non-porous surfaces.
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: NOT classified as hazardous according to the criteria of ASCC.
Dangerous Goods Class: Class 2.1, no sub-risk.
Poisons Schedule: None allocated.
Risk Phrases: Flammable.
Safety Phrases: Keep out of reach of children.
Keep container in a well-ventilated place.
Keep away from sources of ignition - no smoking.
Avoid contact with the eyes and skin. In case of contact with eyes, rinse immediately with plenty of water.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

<u>Chemical Entity</u>	<u>CAS No</u>	<u>Proportion</u>	<u>Synonyms</u>
'Ingredients determined not to be hazardous'		100%	
(Propan-2-ol)	67-63-0	<20%	Isopropanol)

SECTION 4 – FIRST AID MEASURES

Skin: Wash off with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Eye: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Give water, but do NOT induce vomiting. If vomiting occurs, give fluids again. Seek medical attention.

First Aid Facilities: General eyewash and safety shower.

Advice to Doctor: Treat the patient symptomatically.

Additional Information: Principle routes of exposure: inhalation, skin and eye contact. Primary routes of entry: inhalation, skin absorption. Target organs: Skin, eyes, liver, heart, central nervous system, respiratory system, kidney.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: In the event of a fire, powder, foam, CO₂ and water spray are the recommended extinguishing agents. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Protective Equipment and Precautions for Fire Fighters: As in any fire, fire fighters should wear self-contained breathing apparatus and full protective gear.

Fire/Explosive Hazards: As with all aerosol containers, use water spray to cool exposed cans.

Hazchem Code: 2Y

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing. Floor may be slippery.

Methods and Materials for Containment and Clean Up: Eliminate all sources of ignition and ventilate the area. Due to the nature of the aerosol packaging, a large spill is unlikely. For a small spill, ventilate the area and absorb with a non-combustible, inert, absorbent material. 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. Residue can be rinsed with water and area washed with detergent and water, but do not flush spilt product into surface water.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling: Keep away from heat, open flames, sparks, pilot lights, static electricity, and any other and ignition sources when using - product is flammable. Keep out of eyes. Avoid breathing vapours and mists, and avoid contact with skin and eyes.

Observe all precautions stated on the product label, and follow industry safety regulations. Prevent repeated or prolonged skin exposure; follow the exposure controls outlined in Section 8. Maintain high standards of personal hygiene - i.e. always wash hands prior to eating, drinking, smoking or using toilets.

Conditions for Safe Storage: Store indoors in the in original container. Store in a dry, well-ventilated area. Store below 49°C. Keep away from heat and sources of ignition.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: Not established for this mixture. The exposure limits for individual ingredients follow:

propane/butane propellant:	TWA – 800ppm; 1900mg/m ³
propan-2-ol:	TWA - 400ppm (983mg/m ³); STEL – 500ppm (1230mg/m ³)

Engineering Controls: Ensure adequate ventilation. General exhaust is usually sufficient to protect user from exposure to levels of greater than permissible exposure limits. Minimise confined space use.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses with side shields if use presents the likelihood of eye contact. AS1336 and AS/NZS1337 should be consulted for information on eye protection.

Skin Protection: Wear impervious gloves when handling this product if repeated or prolonged skin contact is anticipated. Refer to AS/NZS 2161 for information on glove selection.

Respiratory Protection: Whilst not required in normal conditions of use, an approved organic vapour respirator meeting the requirements outlined in AS/NZS 1715 and AS/NZS 1716 should be used if engineering controls are not effective in controlling airborne exposure in a specific situation – or if used in confined or poorly ventilated areas where exposure will be above the recommended exposure limits.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque white emulsion with an alcohol odour.	
Vapour Density:	2.0	(Air = 1)
Vapour Pressure:	131mm of Hg	(At 25°C)
Boiling Point:	82°C	
Melting Point:	Not applicable	
Solubility in Water (g/L):	Complete	
Specific Gravity:	0.97 – 0.99	(At 25°C; water = 1)
Flashpoint:	53°C	(bulk liquid)

Flashpoint Method: P.M.C.C.
 Flammability Limits: Not available
 % Volatiles by Volume: 97%
 Evaporation Rate: 0.5 (Bu Ac = 1)

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.
Hazardous Polymerisation: Will not occur.
Conditions/Materials to Avoid: Avoid heat, hot surfaces, sparks, and open flames. Incompatible with strong bases, acids, oxidising agents, halogenated hydrocarbon, aldehydes, ketones.
Hazardous Decomposition Products: Oxides of carbon and nitrogen. No possibility of hazardous reactions under normal processing.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:
 Acute - Swallowed: May cause irritation to mucous membranes, and cause headaches, drowsiness.
 Acute - Eye: May cause irritation seen as tearing, redness and a burning sensation.
 Acute - Skin: May cause mild irritation. The product may be absorbed through the skin.
 Acute - Inhaled: Not a hazard in usual use, but can cause irritation of respiratory tract. May cause central nervous system effects, headaches and dizziness.

Acute toxicity:

	LD50 Oral	LD50 Dermal	LD50 Inhalation
propan-2-ol	4396mg/kg (rat)	12800mg/kg (rabbit/rat)	72.6mg/L (rat) 4 hr
propane/butane propellant	-	658mg/kg (rat)	658 g/m ³ (rat) 4 hr

Chronic: Due to the use pattern of this product, the likelihood of chronic effects is remote. Repeated exposure may cause skin dryness or cracking. Chronic ingestion can cause liver and kidney injury.

Chronic toxicity: No mutagenicity, sensitisation, developmental or reproductive toxicity data.

Target Organs: Skin, eyes, respiratory system, kidney (propan-2-ol); liver, heart, central nervous system (aerosol propellant).

Product Contains Chemicals Listed as Carcinogens or Potential 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.

Propan-2-ol - log Pow = 0.05

Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea
EC50> 1000mg/L 13299mg/L	LC50= 61200mg/L Pimephales promelas 96 h	EC50 = 35390mg/L	EC50 =
Scenedesmus subspicatus 72 h EC50> 1000mg/L	LC50= 94900mg/L Pimephales promelas 96 h	5 min	48 hr
Scenedesmus subspicatus 96 h	LC50= 9640mg/L Pimephales promelas 96 h		

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. Normally suitable for disposal at approved land waste site, but review Federal, State and local government requirements prior to disposal.

SECTION 14 – TRANSPORT INFORMATION

UN Number: UN1950
UN Proper Shipping Name: Aerosol
Transport Hazard Class: ADG Class 2.1, no sub-risk.

Packaging Group: Not applicable.
Hazchem Code: 2Y
EmS No.: F-D, S-U

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SECTION 15 - REGULATORY INFORMATION



Poisons Schedule: None allocated ;

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SECTION 16 – OTHER INFORMATION

Initial 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. CHEMSEARCH AUSTRALIA 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.