



Safety Data Sheet AR-19 AEROSOL

Supersedes Date Initial Release

Issuing Date DEC 2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AR-19 AEROSOL

Product Code 5002

Recommended use Aerosol - silicon based cleaner & protective coating

Chemical nature Aqueous solution

Manufacturer, importer, supplier

Distributor

NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION
5-9, Ralph Street , Alexandria , NSW -2015

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2. HAZARD IDENTIFICATION

Colour White

Physical State Liquid

Odour Alcohol

GHS**Classification**Physical Hazards

Flammable aerosols

Gases under pressure

Category 2

Compressed Gas

Health Hazard

Serious Eye Damage/Eye Irritation
Specific target organ systemic toxicity
(single exposure)

Category 2A

Category 3

Other Hazards**Labelling**Signal Word**WARNING**Hazard Statements

H223 - Flammable aerosol

H280 - Contains gas under pressure; may explode if heated

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P251 - Pressurized container: Do not pierce or burn, even after use

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a physician.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents and container in accordance with applicable local regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	ENCS	Weight %
Isopropyl alcohol	67-63-0	Present	10- 20
Silicon Emulsion	-		< 5 %
INGREDIENTS NOT TO BE HAZARDOUS			UP TO 100

4. FIRST AID MEASURES

General advice	Avoid breathing vapours, mist, or gas. Avoid contact with skin, eyes and clothing.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Get medical attention immediately if irritation persists. Wash contaminated clothing before re-use.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Drink 1 or 2 glasses of water. Do not induce vomiting. Drink water. Call physician immediately.
Notes to physician	Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE-FIGHTING MEASURES

Flash Point	77 °C (Bulk Liquid)	Method	Seta closed cup
Auto ignition Temperature	No information available.		
Flammability Limits in Air % Mixture.	Upper 12.7	Lower	2.0
Suitable Extinguishing Media	Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO ₂), Foam, Dry Chemical or Water fog. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable Extinguishing Media	Does not use a solid water stream as it may scatter and spread fire.		
Specific hazards arising from the chemical	Material can create slippery conditions. Extremely flammable. Vapours are heavier than air and may travel to distant and/or low-lying sources of ignition and flashback. Vapours may ignite and explode.		
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.		

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Long sleeved clothing.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Keep away from open flames, hot surfaces and sources of ignition Avoid contact with skin, eyes and clothing Take precautionary measures against static discharges Avoid breathing vapours or mists			
Storage	Keep container tightly closed in a dry and well-ventilated place Keep away from open flames, hot surfaces and sources of ignition Do not re-use empty containers			
Storage Temperature	Minimum	2 °C	Maximum	49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ES-TWA	ISHL	ACGIH TLV
Isopropyl alcohol	STEL: 500 ppm STEL: 1230 mg/m ³ TWA: 400 ppm TWA: 983 mg/m ³	ACL: 200 ppm	TWA: 200 ppm STEL: 400 ppm
INGREDIENTS NOT TO BE HAZARDOUS		no data available	No data available

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation wear suitable respiratory equipment.

Eye/Face Protection

Safety glasses with side-shields.

Hand Protection

Protective gloves

Skin Protection

Wear protective gloves/clothing, Impervious clothing.

General Hygiene Considerations

Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque
Colour	White
Physical State	Liquid
Odour	Alcohol
Odour Threshold	No data available
pH	11.2
Melting Point/Range	No data available
Freezing Point	No information available
Boiling Point/Range	82 °C
Flash Point	77 °C
Method	Seta closed cup
Evaporation Rate	9.3 (Butyl acetate=1)
Vapor Pressure	78.6 mmHg @ 21°C
Solubility	Completely soluble
Vapor Density	1.6 (Air = 1.0)
Specific Gravity	0.99
Autoignition Temperature	No information available.
Viscosity	Non viscous
Molecular Weight	No data available
Percent Volatile (Volume)	99.8
VOC Content (%)	20.1
VOC Content (g/L)	186

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions. Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames, and sparks, Keep away from open flames, hot surfaces, and sources of ignition.

Incompatible Products

Acids, Bases, Strong oxidizing agents, Amines, Aldehydes, Halogenated compounds.

Hazardous Decomposition Products

Oxides of Carbon, Nitrogen, and Sodium.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

4.65453 % of the mixture consists of ingredients of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 90,453.00 mg/kg**Dermal LD50** 51,440.00 mg/kg**Inhalation LC50****Gas** Not applicable**Mist** 1,493.80 mg/L**Vapour** not applicable**Primary Routes of Entry**

Inhalation, Skin Absorption.

Main Symptoms**Acute Effects****Eyes** Causes eye irritation.**Skin** May cause skin irritation. May be absorbed through the skin in harmful amounts.**Inhalation** May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause headache and dizziness.**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Causes headache, drowsiness or other effects to the central nervous system. Aspiration hazard if swallowed - can enter lungs and cause damage.**Chronic Effects**

Liver and kidney injuries may occur

Target Organ Effects

Central nervous system, Kidney, Respiratory system.

Aggravated Medical Conditions

Skin disorders, Liver disorders, Kidney disorders, Neurological disorders, Respiratory disorders.

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Isopropyl alcohol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h	no data available	no data available
INGREDIENTS NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Isopropyl alcohol	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
INGREDIENTS NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ES	ACGIH	IARC	NTP	Other
Isopropyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
INGREDIENTS NOT TO BE HAZARDOUS	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION**Product Information** No data available**Component Information**

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50= 13299 mg/L 48 h	0.05
INGREDIENTS NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	N/A

Eco toxicity effects No information available
Persistence and Degradability No information available
Bioaccumulation No information available
Mobility No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Do not puncture. Contents under pressure. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION**ADG 7**

UN-No	UN1950
Proper Shipping Name	Aerosols ,flammable
Hazard Class	2.1
Packing Group	Not Applicable
Hazchem Code	2Y
Shipping Description	AEROSOLS,2.1,UN1950, LTD QTY

15. REGULATORY INFORMATION

Australia

POISON SCHEDULE

None

16. OTHER INFORMATION

Prepared By	Arvind Rane
Super cedes Date	Initial Release
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Reason for Revision	GHS-SDS FORMAT
Glossary	No information available.
List of References.	No information available.

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