

SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

| | |
|---------------------------------------|---|
| Product Identifier: | Vapro 870CB |
| Other means of identification: | VCI electro Spray |
| Recommended use: | Corrosion Protection for electronic components |
| Manufacturer's Name: | Magna Chemical Canada Inc. |
| Address: | 1450 Government Road West, Kirkland Lake ON P2N 2E9 |
| Phone: | Tel: 705 642 3352 or 416 479 9151 |
| Emergency Only: | Canutec 24hr Tel: 613-996-6666 |
| Revision Date: | 15 January 2019 |

SECTION II – HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable liquid: Category 2

GHS LABEL ELEMENTS SYMBOL(S)



SIGNAL WORDS:

Danger

GHS HAZARDS STATEMENTS:

H225: Highly flammable liquid and vapour.

H320: Causes eye irritation

GHS PRECAUTIONARY STATEMENTS:

PREVENTION

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

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/ face protection.

RESPONSE:

P303 + P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: IF IN EYE: IF IN EYE: 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.

P370+P378: In case of fire: Use *CO₂* or powder for extinction.

STORAGE

P403+P235: Store in a well-ventilated place. Keep cool.

SECTION III – COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient Name: | Weight %: | CAS# |
|--|------------------|-------------|
| Isopropyl Alcohol | >90 | 67-63-0 |
| Proprietary Mixture of Salts of carboxylate compound | 1-3 | Mixture |

SECTION IV – FIRST AID MEASURES**Inhalation**

Remove person to an uncontaminated area. Administer oxygen if necessary. If breathing has stopped, administer CPR.

Skin Contact

Remove contaminated clothing. Wash affected area with water. If irritation persists, call physician.

Eye Contact

Immediately flush with plenty of water for at least 15 minutes. Make sure to flush under eyelids. Consult physician immediately.

Ingestion

DO NOT INDUCE VOMITING. Get immediate medical attention.

SECTION V – FIRE FIGHTING MEASURES**Suitable Fire-extinguishing media**

Foam (alcohol-resistant foam), powder, and carbon dioxide are effective fire-extinguishing agents.

Specific hazards arising from the chemical

CO₂, Dry Chemical; or Foam.

Special protective actions for fire fighters

Firemen should wear self-contained breathing apparatus and protective clothing when fighting chemical fires.

SECTION VI – ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance of selection of personal protective equipments see Chapter 8 of this Safety Data Sheet.

Environmental Precautions

Prevent spills from entering drains or sewers and contact with soil.

Methods and materials for contaminated and cleaning up

For small spills, carefully flush with water. For large spills, contain spills. Do not touch or walk through spilled material. Dike ahead of large spills to prevent run-off. Mop, pump or absorb onto suitable absorbent and place in container for reuse, recycle or proper disposal. Flush area with water to eliminate residues.

SECTION VII – HANDLING AND STORAGE**Precautions for safe handling**

Do not swallow. Avoid eyes and skin contact. Wear recommended protective equipment. Use only with adequate ventilation. Wash thoroughly after handling material.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use. Store in dry, cool, well-ventilated area away from incompatibles.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits:**

SG OEL: (TWA) 400 ppm

SG OEL: (STEL) 500 ppm

ACGIH: (TWA) 200 ppm

ACGIH: (STEL) 400 ppm

Appropriate engineering control measure

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.

Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

Individual protection measure**Protective Gloves**

Neoprene/ PVC gloves.

Eye Protection

Safety glasses with side shields are recommended.

Respiratory Protection

Not required under normal use conditions with good general ventilation.

Hygienic Work Practices

Wash hand after use. Do not eat, drink or smoke in immediate area.

| SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES | |
|---|---------------------------------------|
| Appearance Physical State | Liquid |
| Color | Amber |
| Odour | Characteristic |
| Odour Threshold | Not applicable |
| pH | Not applicable |
| Melting Point | Not applicable |
| Freezing Point | -88°C (100% IPA) |
| Boiling Point | 82°C - 83°C (100% IPA) |
| Flash Point | 21°C |
| Evaporation Rate | 1.5 (ASTM D3539, nBuAc =1) (100% IPA) |
| Flammability (solid, gas) | Not applicable |
| Upper explosive limit | 12% (100% IPA) |
| Lower explosive limit | 2% (100% IPA) |
| Vapour Pressure | 4100 Pa @ 20°C (100% IPA) |
| Vapour Density | 2 @ 20°C (100% IPA) |
| Relative Density | 0.95 g/cm ³ ± 0.025 @ 20°C |
| Solubility | Completely miscible |
| Partition coefficient: n-octanol/water | Not applicable |
| Viscosity | Free Flowing Liquid |
| Auto-ignition Temperature | 425°C (100% IPA) |

| SECTION X – STABILITY & REACTIVITY |
|---|
| Reactivity/Incompatible materials React with strong acid and oxidizing materials. |
| Chemical stability Stable under normal temperature and pressure. |
| Possible of hazardous reaction Data not available. |
| Conditions to avoid Heat, contact with incompatible materials, open flame. |
| Hazardous decomposition products Burning may produce oxide of carbons and other substances. |

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 > 2000 mg/kg (Rat)
 Acute Dermal Toxicity LD50 > 2000 mg/kg (Rat)
 Acute Inhalation Toxicity LC50 > 20 mg/L/8 Hours (Rat)

PRIMARY ROUTES OF EXPOSURE

☒ Eye ☒ Skin ☒ Oral ☐ Inhalation ☐ Other

Eyes: Classified as an eye irritant. Contact with the eyes may give rise to irritation and stinging. No permanent damage if treated immediately.

Skin: Prolonged and persistent contact may lead to dermatitis through skin de-fatting.

Inhalation: Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract.

Carcinogenicity: The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental Industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program).

REPRODUCTIVE TOXICITY INFORMATION:

Mutagenicity: No

Embryotoxicity: No.

Teratogenicity: No.

Reproductive Toxicity: No.

SECTION XII – ECOLOGICAL INFORMATION

Eco-toxicity:

Acute Toxicity:

Fish: Low toxicity: LC/EC/IC50 > 100 mg/l

Aquatic Invertebrates: Low toxicity: LC/EC/IC50 > 1000 mg/l

Algae: Expected to have low toxicity: LC/EC/IC50 > 1000 mg/l

Microorganisms: Low toxicity: LC/EC/IC50 > 1000 mg/l

Mobility: Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.

Persistence/degradability: Readily biodegradable meeting the 10-day window criterion. Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulation: Not expected to bioaccumulate significantly.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with existing Federal, State and local environmental regulation.

SECTION XIV – TRANSPORT INFORMATION

Land (as per ADR classification): Regulated

Class: 3

Packing Group: III

Hazard Identification No.: 33

UN No.: 1987

Danger Label (Primary Risk): 3

Proper Shipping Name: ALCOHOLS, N.O.S (contains isopropanol)

Limited Quantity under 30kg /Box by Road

IMDG

Identification Number: UN 1987

Proper Shipping Name: ALCOHOLS, N.O.S (contains isopropanol)

Class / Division: 3

Packing Group: III

Marine Pollutant: NO

IATA (Country variations may apply)

UN No.: 1987

Proper Shipping Name: ALCOHOLS, N.O.S (contains isopropanol)

Class / Division: 3

Packing Group: III

SECTION XV – REGULATORY INFORMATION

Canadian WHMIS Classification: Class B, Division 2**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| | Japan Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION XVI – OTHER INFORMATION

H.M.I.S rating: Health - 1, Fire - 3, Reactivity - 1, Protection - B

Where

0 = Insignificant

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

A = Safety Glass

B = Safety Glass & Gloves

C = Safety Glass, Gloves & Apron

D = Face Shield, Gloves & Apron

Replaces edition of: 10 March 2016

H.M.I.S: Hazardous Materials Identification System**CAS#:** Chemical Abstracts Service Number**ACGIH:** American Conference of Governmental Industrial Hygienists**OSHA:** Occupational Safety and Health Administration**TLV:** Threshold Limit Value**PEL:** Permissible Exposure Limit**REL:** recommended exposure limit**TWA8:** The time weighted average concentration for a normal 8-hour workday and a 40-hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.**N.A:** Not applicable**N/E:** Not establish**N.D:** Not determine**C:** Ceiling (The concentration that should not be exceeded during any part of the working exposure).

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