# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION

| | |
|---|---|
| **Manufacturer's Name (NAFTA Region)**<br>**MAGNA CHEMICAL CANADA INC.** | **Last Issue Date**<br>Mar.15, 2005 |
| **Street Address**<br>15 Bowman Avenue, Matheson, Ontario<br>P0K 1N0, Canada<br>24 Hour Emergency # Canutec: 613:966.666. | **Prepared By: Mr. Moe Kyaw**<br>**Technical Manager**<br>**M.Sc (Env Eng),**<br>**Grad. Dip (Env Eng), B.Sc (I.C)** |
| **Product Description:**<br>V.C.I Fuel Additive | **Trade Name:**<br>**Vappro 851 Fuel-Cor** |

## SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS

| **Ingredient Name:** | **Weight %:** | **TLV:** | **CAS#** |
|---|---|---|---|
| Aeromatic Naptha | >90 | TWA 8hr 300 ppm | 64742-47 |

## SECTION III – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**: COMBUSTIBLE. HARMFUL OR FATAL IF SWALLOWED.

**POTENTIAL HEALTH EFFECTS**

EYE : Liquid or vapor may cause redness, irritation and tearing.

SKIN : Prolonged or repeated contact may cause skin irritation.

INGESTION : Expected to have slight acute toxicity by ingestion. Ingestion of this product and subsequent vomiting can result in aspiration of the liquid into the lungs, causing chemical pneumonia and lung damage. Ingestion may cause irritation of the digestive tract, which may result in nausea, vomiting and diarrhea.

INHALATION : Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache.

## SECTION IV – FIRST AID MEASURES

Ingestion : DO NOT INDUCE VOMITTING. Get immediate medical attention.

Eye : Immediately flush with plenty of water for at least 15 minutes. Make sure to flush under eyelids. Consult a physician for definitive treatment.

Skin : Remove contaminated clothing. Wash affected area thoroughly with soap and water... Consult a physician if irritation persists.

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

## SECTION V – FIRE FIGHTING MEASURES

| | | |
|---|---|---|
| Flash Point | : | 40°C |
| Flammable Limits (% by volume) | : | LEL – 1.4%, UEL – 6% |
| Autoignition Temperature | : | > 250°C |
| Extinguishing Media | : | $CO_2$, dry chemical and foam. |
| Hazardous combustion products | : | Carbon dioxide, Carbon monoxide and smoke. |
| Explosion Hazards | : | Vapors may be ignited rapidly when exposed to heat, spark, open flame or other sources of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or exposed in confined space. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff sewer may cause fire or explosion hazard. Firemen should wear self-contained breathing apparatus and protective clothing when fighting chemical fires. |

## SECTION VI – ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Ventilate area. Avoid breathing vapors and eye or skin contact. Contain spill if possible. Absorb with suitable chemical absorbent and rinse affected area with water.

## SECTION VII – HANDLING AND STORAGE

Keep away from heat, sparks and flame. Handle and store in well-ventilated area and keep containers closed when not in use. Do not get in eyes, on skin, on clothing. Do not swallow. Wash thoroughly after handling.

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|---|---|---|
| Skin Protection | : | Avoid contact with skin or clothing. Skin contact can be minimized by wearing impervious protective clothing including gloves. Protective clothing made from neoprene, nitrile or PVC is suitable in these applications. Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly. |
| Eye Protection | : | Safety glasses with side shields are recommended when there is a possibility of splashing or spraying. |
| Respiratory Protection | : | Atmospheric levels should be maintained below the exposure guideline. when respiratory protection is required an appropriate NIOSH approved respiration for organic vapor should be worn. |
| Engineering Control | : | Under normal applications, general dilution ventilation is adequate. Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined space. |

## SECTION IX – PHYSICAL PROPERTIES

| | |
|---|---|
| Boiling Point | N.A |
| Color | Amber |
| Odour | Mild |
| Specific Gravity | 0.78±0.025 |
| pH | 7±0.5 |
| Physical Form | Liquid |
| Solubility (water) | Insoluble |
| Evaporation Rate(Butyl Acetate = 1) | <1 |

## SECTION X – STABILITY & REACTIVITY

| | |
|---|---|
| Stability | Stable |
| Hazard Polymerization | Will not occur |
| Conditions to avoid | Heat, sparks, flame, red hot metal, smoking and other ignition sources. |
| Incompatibilities | Strong Oxidizing materials |
| Decomposition Products | Oxides of carbon and smoke. |

## SECTION XI – TOXICOLOGICAL INFORMATION

| | Acute Oral LD 50 | Acute Dermal LD 50 | Acute Inhalation LC 50 |
|---|---|---|---|
| Aeromatic Naptha | N/E | N/E | N/E |

## SECTION XII – ECOLOGICAL INFORMATION

Not Available.

## SECTION XIII – DISPOSAL

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

## SECTION XIV – TRANSPORT INFORMATION

| | |
|---|---|
| Proper Shipping Name | Flammable liquid, n.o.s.(Contains aeromatic naphtha) |
| IMO Class | 3.3 |
| Hazard Label (S) | Flammable Liquid |
| UN OR ID Number | UN 1993 |
| MPA Group | III |

## SECTION XV – OTHER INFORMATION

H.M.I.S rating: Health - 1, Fire – 2, Reactivity – 0, 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 , Glove & Apron

**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

**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