

SAFETY DATA SHEET**SECTION I - PRODUCT IDENTIFICATION**

Product Identifier: Vapro NDT Developer
Other means of identification: VCI Surface Flaw Detector
Recommended use: Surface flaw detector
Supplier's Name: Magna Chemical Canada Inc.
Address: 1450 Government Road West, Kirkland Lake ON P2N 2E9
Phone: 705 642 3352 or 416 479 9151
Emergency only: Canutec 24hr Tel: 613 996 6666
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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

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.
 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.
 P370 + P378: In case of fire: Use carbon dioxide, or Dry chemical powder, or water spray for extinction.

STORAGE:

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

SECTION III – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name:	Weight %:	CAS#
Mixture of Alcohol and Titanium Dioxide	100	Mixture

SECTION IV – FIRST AID MEASURES

Inhalation

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary.

Skin Contact

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

Eye Contact

If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

Ingestion

DO NOT INDUCE VOMITING. Get immediate medical attention.

SECTION V – FIRE FIGHTING MEASURES

Suitable Fire-extinguishing media

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

Specific hazards arising from the chemical

Toxic gases and vapours; oxides of carbon are generated.

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:

Alcohol

NIOSH REL: 1900 mg/m³

OSHA PEL TWA 1900 mg/m³

Appropriate engineering control measure

Under normal applications, general ventilation is adequate.

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. Protect against generated mist/ spray back.

Hygienic Work Practices

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

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Physical State	
Color	White
Odour	Alcohol
Odour Threshold	Not applicable
pH	7±0.5
Melting Point	Not applicable
Freezing Point	-114.1°C
Boiling Point	78.5°C
Flash Point	22°C
Evaporation Rate (Butyl Acetate = 1)	2
Flammability (solid, gas)	Not applicable
Upper explosive limit	19%
Lower explosive limit	3.3%
Vapour Pressure	44 mm Hg
Vapour Density	1.59 (Air =1)
Relative Density	0.08 g/cm ³ ± 0.025
Solubility	Completely soluble in water
Partition coefficient: n-octanol/water	Not applicable
Viscosity	Free Flowing Liquid
Auto-ignition Temperature	365 °C

SECTION X – STABILITY & REACTIVITY

Reactivity/Incompatible materials

React with 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

Alcohol

Oral LD 50: 6200-17800 mg/kg (Rat)

Dermal: >20,000gm / kg (Rabbit)

Inhalation: >8000 mg/litre/4h (Rat)

PRIMARY ROUTES OF EXPOSURE

☒ Eye ☒ Skin ☒ Oral ☐ Inhalation ☐ Other

Eyes: May injure tissue; moderately irritating causing redness.

Skin: Unlikely to cause appreciable irritation even on repeated contact. Unlikely to be absorbed in harmful amounts.

Inhalation: Moderately irritating to Respiratory tract and mucous membranes. Chronic exposure to the vapor may result in headache and symptoms of central nervous depression. Nasal and eye irritation well below the TLV.

Ingestion: Headache, dizziness, dullness, gastric disorders and symptoms of nervous system depression.

Long-term toxicity: None of the components are listed as CMR* (*Carcinogenic, mutagenic or reproductive toxin).

SECTION XII – ECOLOGICAL INFORMATION

Eco-toxicity: There is no data available on the product itself.

Mobility: The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.

Persistence and Degradability: There is no persistence or degradation data for any component of this product at this time.

Bio-accumulative Potential: Not expected to bio-accumulate.

SECTION XIII – DISPOSAL CONSIDERATIONS

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

SECTION XIV – TRANSPORT INFORMATION

Proper Shipping Name	Ethyl Alcohol Solution
IMO Class	3
UN OR ID Number	UN1170
MPA Group	II

SECTION XV – REGULATORY INFORMATION

No information available for this product.

SECTION XVI – OTHER INFORMATION

H.M.I.S rating: Health - 2, 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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