

## Safety Data Sheet

### VM&P Naphtha C5530

Version 4.2

Revision Date: 05/02/2017

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : VM&P Naphtha  
**Product Use Description** : Solvent.

##### Manufacturer or supplier's details

**Company**  
Lab Alley, LLC  
22111 Highway 71 West, Suite 601  
Spicewood, Texas 78669  
Tel: 512-668-9918

**Additional Information:** : Responsible Party: Product Safety Group  
E-Mail: [gordon@postapplescientific.com](mailto:gordon@postapplescientific.com)  
SDS Requests: 1-814-725-3330  
SDS Requests Fax: 1-814-725-8103  
Website: [www.postapplescientific.com](http://www.postapplescientific.com)

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

Flammable liquids : Category 2  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Germ cell mutagenicity : Category 1B  
Carcinogenicity : Category 1B  
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)  
Aspiration hazard : Category 1

##### GHS Label element

Hazard pictograms :



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Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer.
Precautionary statements	: <b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P281 Use personal protective equipment as required. <b>Response:</b> P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.

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P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

### Storage:

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

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

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## Potential Health Effects

### Carcinogenicity:

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## Emergency Overview

Appearance	liquid
Colour	clear, colourless
Odour	hydrocarbon-like
Hazard Summary	No information available.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
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68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hy- drotreated lt AND/OR Solvent naphtha (pet), lt aliph.	90 - 100
111-65-9	**Octane	1 - 5

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO2)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: Use a water spray to cool fully closed containers.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for fire-fighting if necessary.

**NFPA Flammable and Combustible Liquids Classification:**  
Flammable Liquid Class IB

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapours/dust.
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Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully re-sealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
111-65-9	**Octane	TWA	300 ppm	ACGIH
		TWA	75 ppm 350 mg/m <sup>3</sup>	NIOSH REL
		C	385 ppm 1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm 2,350 mg/m <sup>3</sup>	OSHA Z-1
		TWA	300 ppm 1,450 mg/m <sup>3</sup>	OSHA P0
		STEL	375 ppm 1,800 mg/m <sup>3</sup>	OSHA P0

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with

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an approved filter.

Hand protection  
Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection

: impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

: When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

: clear, colourless

Odour

: hydrocarbon-like

Odour Threshold

: No data available

pH

: No data available

Freezing Point (Melting  
point/range)

: < -60 °C (< -76 °F)

Boiling Point (Boiling  
point/boiling range)

: 118 - 150 °C (244 - 302 °F)

Flash point

: 14 - 20.5 °C (57 - 68.9 °F)

Evaporation rate

: 0.987 - 1  
n-Butyl Acetate

Flammability (solid, gas)

: No data available

Burning rate

: No data available

Upper explosion limit

: 6.7 - 7.6 %(V)

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Lower explosion limit	: 0.9 - 1.4 %(V)
Vapour pressure	: 11 - 16 mmHg @ 20 - 25 °C (68 - 77 °F)
Relative vapour density	: 4(Air = 1.0)
Relative density	: 0.7358 - 0.76 @ 15.6 °C (60.1 °F)
Density	: Estimated 0.7601 g/cm <sup>3</sup>
Bulk density	: No data available
Solubility(ies)	
Water solubility	: 0.05 g/l negligible
Solubility in other sol- vents	: No data available
Partition coefficient: n- octanol/water	: log Pow: > 4
Auto-ignition temperature	: 246 - 470 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: < 10 mm <sup>2</sup> /s @ 40 °C (104 °F)

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Strong oxidizing agents



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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Components:

##### **68410-97-9 / 64742-49-0 / 64742-89-8:**

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

#### Skin corrosion/irritation

##### Product:

Result: Irritating to skin.

##### Components:

##### **68410-97-9 / 64742-49-0 / 64742-89-8:**

Species: rabbit  
Exposure time: 4 h  
Result: Irritating to skin.

#### Serious eye damage/eye irritation

##### Product:

Result: Irritating to eyes.

##### Components:

##### **68410-97-9 / 64742-49-0 / 64742-89-8:**

Species: rabbit  
Result: Irritating to eyes.

#### Respiratory or skin sensitisation

##### Components:

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### 68410-97-9 / 64742-49-0 / 64742-89-8:

Test Type: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Components:

### 68410-97-9 / 64742-49-0 / 64742-89-8:

Germ cell mutagenicity - Assessment : Positive result(s) from mutagenicity tests in mammals. Evidence that the substance has potential to cause mutations to germ cells

### Carcinogenicity

#### Components:

### 68410-97-9 / 64742-49-0 / 64742-89-8:

Carcinogenicity - Assessment : Possible human carcinogen

### Reproductive toxicity

#### Components:

### 68410-97-9 / 64742-49-0 / 64742-89-8:

Reproductive toxicity - Assessment : No toxicity to reproduction  
No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

### STOT - single exposure

**Product:** No data available

#### Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

111-65-9: No data available

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### STOT - repeated exposure

**Product:** No data available

#### **Components:**

**68410-97-9 / 64742-49-0 / 64742-89-8:** No data available

**111-65-9:** No data available

### Repeated dose toxicity

#### **Components:**

**68410-97-9 / 64742-49-0 / 64742-89-8:**

Species: rat, male and female

NOAEL: 1402

Application Route: inhalation (vapour)

Test atmosphere: vapour

Exposure time: 13

Number of exposures: 6 hours/day, 5 day

Dose: 322, 1402, 9869 mg/m<sup>3</sup>

GLP: yes

Target Organs: Kidney

Symptoms: Nasal and ocular discharge

### Aspiration toxicity

#### **Components:**

**68410-97-9 / 64742-49-0 / 64742-89-8:**

May be fatal if swallowed and enters airways.

### Further information

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### **Components:**

**68410-97-9 / 64742-49-0 / 64742-89-8:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2

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	mg/l
	Exposure time: 96 h
	Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test Type: Immobilization Analytical monitoring: yes
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 Exposure time: 96 h Test Type: static test
Ecotoxicology Assessment	
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

### Persistence and degradability

#### Components:

**68410-97-9 / 64742-49-0 / 64742-89-8:**

Biodegradability	: Concentration: 49.2 mg/l Result: Readily biodegradable. Biodegradation: 77 % Testing period: 2 d Exposure time: 28 d
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### Bioaccumulative potential

#### Components:

**111-65-9:**

Partition coefficient: n-octanol/water	: log Pow: 5.15
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### Mobility in soil

No data available

### Other adverse effects

No data available

#### Product:

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

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+ B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, Flash Point: 14 - 20.5 °C (57 - 68.9 °F)

**IMDG (International Maritime Dangerous Goods):** UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, Marine Pollutant (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT)

**DOT (Department of Transportation):** UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Moderate skin irritant, Moderate eye irritant, Carcinogen, Mutagen, Specific target organ toxicity - single exposure, Aspiration hazard

**WHMIS Classification** : B2: Flammable liquid  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects

**EPCRA - Emergency Planning and Community Right-to-Know Act**

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### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
**Mixed Xylenes	1330-20-7	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

: Fire Hazard  
Acute Health Hazard  
Chronic Health Hazard

#### SARA 302

: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

1330-20-7	**Mixed Xylenes	0.13 %
108-88-3	**Toluene	0.0999 %
100-41-4	**Ethylbenzene	0.0999 %
108-38-3	**m-Xylene	0.05 %
71-43-2	**Benzene	0.0099 %
91-20-3	**Naphthalene	0.0099 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7	**Mixed Xylenes	0.13 %
108-88-3	**Toluene	0.0999 %
100-41-4	**Ethylbenzene	0.0999 %
71-43-2	**Benzene	0.0099 %

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1330-20-7	**Mixed Xylenes	0.13 %
108-88-3	**Toluene	0.0999 %
100-41-4	**Ethylbenzene	0.0999 %
108-38-3	**m-Xylene	0.05 %
71-43-2	**Benzene	0.0099 %
91-20-3	**Naphthalene	0.0099 %

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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1330-20-7	**Mixed Xylenes	0.13 %
108-88-3	**Toluene	0.0999 %
100-41-4	**Ethylbenzene	0.0999 %
71-43-2	**Benzene	0.0099 %
91-20-3	**Naphthalene	0.0099 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

111-65-9	**Octane	1 - 5 %
71-43-2	**Benzene	0 - 0.1 %

#### Pennsylvania Right To Know

68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	90 - 100 %
111-65-9	**Octane	1 - 5 %
1330-20-7	**Mixed Xylenes	0.1 - 1 %
108-88-3	**Toluene	0 - 0.1 %
100-41-4	**Ethylbenzene	0 - 0.1 %
108-38-3	**m-Xylene	0 - 0.1 %

#### New Jersey Right To Know

68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	90 - 100 %
111-65-9	**Octane	1 - 5 %

#### California Prop 65

	WARNING! This product contains a chemical known to the State of California to cause cancer.
100-41-4	**Ethylbenzene
71-43-2	**Benzene
91-20-3	**Naphthalene
	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-88-3	**Toluene
71-43-2	**Benzene

#### The components of this product are reported in the following inventories:

United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
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<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>New Zealand. Inventory of Chemical Substances</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)



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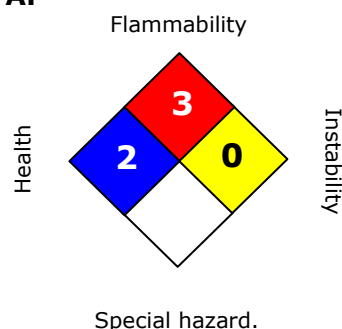
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**Legacy MSDS:** 5530

**Material number:**  
C5530

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit

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EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		