

# MATERIAL SAFETY DATA SHEET

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Revision Date: 1/14/2010  
Date Printed: 11/30/2012  
MSDS No: 000000083805  
Version: 1.3

Finish Pro 6100 Gun Cleaner

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Material Identity

Product Name: Finish Pro 6100 Gun Cleaner  
General or Generic ID: SOLVENT BLEND

### Company

Cumberland Products Inc.  
50 Commerce Parkway  
Hodgenville, KY 42748  
1-800-223-1918

Emergency Telephone Number: 1-800-424-9300 CHEMTREC

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Appearance: liquid

WARNING! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. HARMFUL IF SWALLOWED. MAY CAUSE BLINDNESS. MAY BE HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

### Potential Health Effects

#### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

#### **Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

#### **Skin contact**

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

#### **Ingestion**

Swallowing this material may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

#### **Inhalation**

Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (**see** Section 8.).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Upper respiratory tract, Skin, lung (for example, asthma-like conditions), Liver, kidney, pancreas, Heart, blood-forming system, auditory system, Central nervous system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

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## Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), runny nose, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Blurred vision, Weakness, Lack of coordination, Shortness of breath, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, muscle cramps, pain in the abdomen and lower back, confusion, irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), high blood sugar, visual impairment (including blindness), coma

## Target Organs

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., Exposure to lethal concentrations of methanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage. Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: blood abnormalities, liver abnormalities, effects on hearing, respiratory tract damage (nose, throat, and airways), central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: visual impairment, kidney damage

## Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

## Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain., Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans., Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components                         | CAS-No.    | Concentration |
|--|------------|---------------|
| ACETONE                                      | 67-64-1    | >=30-<40%     |
| METHANOL                                     | 67-56-1    | >=20-<30%     |
| TOLUENE                                      | 108-88-3   | >=20-<30%     |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 | >=10-<15%     |

## 4. FIRST AID MEASURES

### Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

### Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

### Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

### Notes to physician

**Hazards:** Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.

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**Treatment:** No information available.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO<sub>2</sub>)

### Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons

### Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

### Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

### Methods for 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).

### Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapors/mists with a water spray jet.

## 7. HANDLING AND STORAGE

### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper

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bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

## Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

ACETONE67-64-1

|          |                                   |             |
|----------|-----------------------------------|-------------|
| ACGIH    | time weighted average             | 500 ppm     |
| ACGIH    | Short term exposure limit         | 750 ppm     |
| NIOSH    | Recommended exposure limit (REL): | 250 ppm     |
| NIOSH    | Recommended exposure limit (REL): | 590 mg/m3   |
| OSHA Z1  | Permissible exposure limit        | 1,000 ppm   |
| OSHA Z I | Permissible exposure limit        | 2,400 mg/m3 |

### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

### Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

### Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

### Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| Physical state                              | liquid   |
| Form  | No data  |
| Color                                       | No data  |
| Odor  | No data  |
| Boiling point/boiling range pH              | No data  |
| Flash point                                 | (>.) -20.00 °C Tag closed cup                        |
| Evaporation rate                            | No data  |
| Lower explosion limit/Upper explosion limit | No data  |
| Vapor pressure                              | No data  |
| Vapor density                               | No data  |
| Density                                     | 0.797 g/cm3No data<br>>=6.640 lb/gal @ 68 °F / 20 °C |
| Solubility                                  | No data  |
| Partition coefficient: n-octanol/water      | No data  |
| log Pow                                     | no data available                                    |
| Autoignition temperature                    | No data  |

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

None known.

### Incompatible products

Acids, alkalis, Reducing agents, Strong oxidizing agents, calcium hypochlorite, hypochlorites, Peroxides, sodium, strong bases, Zinc

### Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons

### Hazardous reactions

Product will not undergo hazardous polymerization.

### Thermal decomposition

No data

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

|  |               |                       |
|--|---------------|-----------------------|
| ACETONE                                      | : LD 50 Rat   | : 5,800 mg/kg         |
| METHANOL                                     | : LD LO Human | : 300 mg/kg           |
| TOLUENE                                      | : LD 50 Rat   | : 2,600 - 7.500 mg/kg |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | : LD 50 Rat   | : > 8,000 mg/kg       |

### Acute inhalation toxicity

|  |             |                    |
|--|-------------|--------------------|
| ACETONE                                      | : LC 50 Rat | : > 16000 ppm, 4 h |
| METHANOL                                     | : LC 50 Rat | : 64000 ppm, 4 h   |
| TOLUENE                                      | : LC 50 Rat | : 8000 ppm, 4 h    |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | : LC 50 Rat | : 3400 ppm, 4 h    |

### Acute dermal toxicity

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ACETONE : LD 50 Rabbit : > 20,000 mg/kg  
METHANOL : LD 50 Rabbit : 12,800 mg/kg  
TOLUENE : LD 50 Rabbit : 12,124 mg/kg  
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC: LD 50 Rat : > 4,000 mg/kg

## 12. ECOLOGICAL INFORMATION

### Biodegradability

ACETONE : no data available  
METHANOL : no data available  
TOLUENE : no data available  
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

### Bioaccumulation

ACETONE : no data available  
METHANOL : Species: Green algae (Chlorella fusca vacuolata)  
Exposure time: 24 h  
Dose: 0.05 mg/l  
Bioconcentration factor (BCF): 28,400  
Method: Static  
TOLUENE : Species: Ide, silver or golden orfe (Leuciscus idus)  
Exposure time: 3 d  
Dose: 0.05 mg/l  
Bioconcentration factor (BCF): 94  
Method: Not reported  
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

### Ecotoxicity effects

#### Toxicity to fish

ACETONE : 96 h LC 50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 4,740.00 - 6,330.00 mg/l  
Method: Static  
Mortality 96 h LC 50 Bluegill (Lepomis macrochirus): 8,300.00 mg/l  
Method: Static  
Mortality 96 h LC 50 Fathead minnow (Pimephales promelas): 8,733.00 - 9,482.00 mg/l  
Method: Flow through  
Mortality  
METHANOL : no data available  
TOLUENE : 96 h LC 50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 5.80 mg/l  
Method: Renewal  
Mortality 96 h LC 50 Fathead minnow (Pimephales promelas): 12.60 mg/l  
Method: Static  
Mortality  
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

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**Toxicity to daphnia and invertebrates**

ACETONE : no data available  
 METHANOL : 48 h EC 50 Water flea (Daphnia magna): > 10,000.00 mg/I  
 Method: Static  
 Intoxication  
 TOLUENE : 48 h EC 50 Water flea (Daphnia magna): 6.00 mg/I  
 Method: Static  
 Intoxication  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

**Toxicity to algae**

ACETONE : no data available  
 METHANOL : no data available  
 TOLUENE : no data available  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

**Toxicity to bacteria**

ACETONE : no data available  
 METHANOL : no data available  
 TOLUENE : no data available  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

**Biochemical Oxygen Demand (BOD)**

ACETONE : no data available  
 METHANOL : no data available  
 TOLUENE : no data available  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

**Chemical Oxygen Demand (COD)**

ACETONE : no data available  
 METHANOL : no data available  
 TOLUENE : no data available  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

**Additional ecological information**

ACETONE : no data available  
 METHANOL : no data available  
 TOLUENE : no data available  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC : no data available

**13. DISPOSAL CONSIDERATION**

**Waste disposal methods**

No data

**14. TRANSPORT INFORMATION**

REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

U.S. DOT - ROAD

|    |                             |   |  |    |  |
|----|-----------------------------|---|--|----|--|
| UN | 1263 Paint related material | 3 |  | II |  |
|----|-----------------------------|---|--|----|--|

U.S. DOT - RAIL

|    |                             |   |  |    |  |
|----|-----------------------------|---|--|----|--|
| UN | 1263 Paint related material | 3 |  | II |  |
|----|-----------------------------|---|--|----|--|

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**U.S. DOT - INLAND WATERWAYS**

|                               |   |    |
|-------------------------------|---|----|
| UN1263 Paint related material | 3 | II |
|-------------------------------|---|----|

**TRANSPORT CANADA - ROAD**

|                                |   |    |
|--------------------------------|---|----|
| UN 1263 PAINT RELATED MATERIAL | 3 | II |
|--------------------------------|---|----|

**TRANSPORT CANADA - RAIL**

|                                |   |    |         |
|--------------------------------|---|----|---------|
| UN 1263 PAINT RELATED MATERIAL | 3 | II | 28.79 % |
|--------------------------------|---|----|---------|

20.53 %

**TRANSPORT CANADA - INLAND WATERWAYS**

|                                |   |    |
|--------------------------------|---|----|
| UN 1263 PAINT RELATED MATERIAL | 3 | II |
|--------------------------------|---|----|

**INTERNATIONAL MARITIME DANGEROUS GOODS**

|                                |   |    |
|--------------------------------|---|----|
| UN 1263 PAINT RELATED MATERIAL | 3 | II |
|--------------------------------|---|----|

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

|                                |   |    |
|--------------------------------|---|----|
| UN 1263 Paint related material | 3 | II |
|--------------------------------|---|----|

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

|                                |   |    |
|--------------------------------|---|----|
| UN 1263 Paint related material | 3 | II |
|--------------------------------|---|----|

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

|                                |   |    |                                |
|--------------------------------|---|----|--------------------------------|
| UN 1263 PRODUCTOS PARA PINTURA | 3 | II | 67-64-1<br>67-56-1<br>108-88-3 |
|--------------------------------|---|----|--------------------------------|

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

64742-89-8

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**15. REGULATORY INFORMATION**

**California Prop. 65**

**WARNING!** This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

TOLUENE  
 BENZENE

**SARA Hazard Classification**

Fire Hazard  
 Acute Health Hazard

**SARA 313 Component(s)** METHANOL  
 TOLUENE

**New Jersey RTK Label Information**

ACETONE METHANOL TOLUENE  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC

67-64-1  
 67-56-1  
 108-88-3  
 64742-89-8

**Pennsylvania RTK Label Information**

ACETONE y (positive listing)  
 y (positive listing)  
 y (positive listing)

y (positive listing)

y (positive listing)  
 y (positive listing)  
 y (positive listing)

y (positive listing)

METHANOL TOLUENE

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SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC

**Notification status**

**EU. EINECS**

US. Toxic Substances Control Act

Australia. Industrial Chemical (Notification and Assessment) Act

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL).  
(Can. Gaz. Part II, Vol. 133) Japan. Kashin-Hou Law List

Korea. Toxic Chemical Control Law (TCCL) List

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act

China. Inventory of Existing Chemical Substances

**Reportable quantity - Product**

**US. EPA** CERCLA Hazardous Substances (40 CFR 302)

4871 lbs

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**Reportable quantity-Components**

TOLUENE 108-88-3 1000 lbs

|                  | <b>HMIS</b> | <b>NFPA</b> |
|------------------|-------------|-------------|
| Health           | 2*          | 2           |
| Flammability     | 3           | 3           |
| Physical hazards | --          |             |
| Instability      |             | 0           |
| Specific Hazard  | --          | --          |

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

^SHILANIID.

**VOC and HAP Report**

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S S C U M B E R L A N D B L E N D V e r s i o n : 1 . 0 616767

**VOC Content (as formulated)**

60.17 %  
**VOC Content (SCAQMD)** 801.51 g/I  
**VOC Vapor Pressure @ 20°C (SCAQMD)** 84.88 hPa

**Calculated HAP Total** 49.32%

METHANOL 67-56-1 28.79%  
TOLUENE 108-88-3 20.52%

**Calculated Organic HAP Total** 49.32%

METHANOL 67-56-1 28.79%  
TOLUENE 108-88-3 20.52%

Hazardous Air Pollutants reported on this document are limited to those that are defined as hazardous under 29 CFR 1910.1200. It is possible that there are other Hazardous Air Pollutants in this product at levels that are not reportable by the OSHA Hazard Communication Standard. Certain air regulations require that these components be included in determinations of total HAP emissions. If you require information on the unreported Hazardous Air Pollutants, please contact your Ashland account representative.

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recommendations or suggestions must be evaluated by you to determine their applicability or suitability for your particular program. Ashland is not engaged in rendering legal or other professional service, and if such service is required, a competent professional should be retained. Any information claimed by Ashland to be confidential or proprietary is not to be disclosed to any third party.

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