

ASHLAND®

SAFETY DATA SHEET

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Revision Date: 09/18/2014

Print Date: 10/16/2014

MSDS Number: 000000132750

Version: 1.7

NAPA® MAC'S LOW VOC NON-CHLOR BRAKE
PARTS CLEANER

NM4810

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)
Product name	NAPA® MAC'S LOW VOC NON-CHLOR BRAKE PARTS CLEANER	
Product code	NM4810	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: aerosol

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. HARMFUL IF SWALLOWED. MAY CAUSE BLINDNESS.

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

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

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Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, pancreas, Heart, blood-forming system, male reproductive system, auditory 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.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the skin, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), discomfort in the chest, 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, effects on memory, muscle cramps, pain in the abdomen and lower back, respiratory depression (slowing of the breathing rate), Blurred vision, Shortness of breath, Lack of coordination, confusion, irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), narcosis (dazed or sluggish feeling), visual impairment (including blindness), coma

Target Organs

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., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: blood abnormalities, cardiac sensitization, testis damage, kidney damage, liver damage, central nervous system damage, effects on hearing, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: central nervous system effects, visual impairment

Carcinogenicity

Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified ethylbenzene as a possible human carcinogen.

Reproductive hazard

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., This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

CAS-No. / Trade Secret
No.

Concentration

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ACETONE	67-64-1	>=80-<90%
CARBON DIOXIDE	124-38-9	>=5-<10%
XYLENE	1330-20-7	>=5-<10%
METHANOL	67-56-1	>=1.5-<5%
ETHYL BENZENE	100-41-4	>=1.5-<5%

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, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

Hazards: This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. 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.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

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Water spray, Dry chemical, Carbon dioxide (CO2)

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, Aldehydes Aldehydes, 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). 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 material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Not applicable

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. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

Environmental precautions

Do not flush into surface water or sanitary sewer system.

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/vapours/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

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for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area. Maximum recommended storage temperature 50 degrees C (122 degrees F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ACETONE		67-64-1
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 Z1	Permissible exposure limit	2,400 mg/m3
ACGIH NIC	time weighted average	250 ppm
ACGIH NIC	Short term exposure limit	500 ppm
OSHA Z1A	time weighted average	750 ppm
OSHA Z1A	time weighted average	1,800 mg/m3
OSHA Z1A	Short Term Exposure Limit (STEL):	1,000 ppm
OSHA Z1A	Short Term Exposure Limit (STEL):	2,400 mg/m3
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	500 ppm
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	1,200 mg/m3
US CA OEL	Ceiling Limit Value:	3,000 ppm
US CA OEL	Short Term Exposure Limit (STEL):	750 ppm
US CA OEL	Short Term Exposure Limit (STEL):	1,780 mg/m3
CARBON DIOXIDE		124-38-9
ACGIH	time weighted average	5,000 ppm
ACGIH	Short term exposure limit	30,000 ppm
NIOSH	Recommended exposure limit (REL):	5,000 ppm

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NIOSH	Recommended exposure limit (REL):	9,000 mg/m3
NIOSH	Short term exposure limit	30,000 ppm
NIOSH	Short term exposure limit	54,000 mg/m3
OSHA Z1	Permissible exposure limit	5,000 ppm
OSHA Z1	Permissible exposure limit	9,000 mg/m3

XYLENE **1330-20-7**

ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	655 mg/m3

METHANOL **67-56-1**

ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	260 mg/m3
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	325 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	260 mg/m3

ETHYL BENZENE **100-41-4**

ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3
NIOSH	Short term exposure limit	125 ppm
NIOSH	Short term exposure limit	545 mg/m3
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3

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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.

Wear resistant gloves (consult your safety equipment supplier).
Discard gloves that show tears, pinholes, or signs of wear.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	aerosol
Flash point	-4 °F / -20 °C Value for Component
Lower explosion limit/Upper explosion limit	1 %(V) / 36 %(V) Calculated Explosive Limit
Vapour pressure	(>)9,999.000 hPa @ 70 °F / 21 °C Value for Component
Density	0.756 g/cm ³ @ 70.0 °F / 21.1 °C

10. STABILITY AND REACTIVITY

Stability

Stable. Stable.

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Conditions to avoid

excessive heat, Heat, flames and sparks.

Incompatible products

Acids, alkalis, Amines, Ammonia, halogens, Lead, peroxides, Reducing agents, sodium, strong bases, Strong oxidizing agents, Zinc, Peroxides

Hazardous decomposition products

carbon dioxide and carbon monoxide, formaldehyde-like, Hydrocarbons carbon dioxide and carbon monoxide, formaldehyde-like, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization. Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin absorption
Skin contact
Eye Contact
Ingestion

Product

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitisation : No data available

Target Organ Systemic Toxicant - Repeated exposure : Target Organs: 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

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occurs, survivors of severe intoxication may suffer from permanent neurological damage., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, blood abnormalities, cardiac sensitization, testis damage, kidney damage, liver damage, central nervous system damage, effects on hearing, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, central nervous system effects, visual impairment

Aspiration toxicity : The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Components:

ACETONE:

Acute oral toxicity : LD 50 Rat, female: 5,800 mg/kg

Acute inhalation toxicity : LC 50 Rat, female: 76 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD 50 Rabbit: > 7,426 mg/kg

STOT - single exposure : Exposure routes: Inhalation
Target Organs: Nervous system
Assessment: May cause drowsiness or dizziness.

Experience with human exposure : Prolonged skin contact may defat the skin and produce dermatitis.

XYLENE:

Acute oral toxicity : LD 50 Rat: 3,523 - 8,600 mg/kg

Acute inhalation toxicity : LC 50 Rat: 6700 ppm
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD 50 Rabbit: 1,700 mg/kg

STOT - single exposure : Assessment: May cause respiratory irritation., May cause

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drowsiness or dizziness.

Aspiration toxicity : May be fatal if swallowed and enters airways.

METHANOL:

Acute oral toxicity : LD L0 Human: 300 mg/kg
The component/mixture is classified as acute oral toxicity,
category 3.

Acute inhalation toxicity : LC 50 Rat: 64000 ppm
Exposure time: 4 h

The component/mixture is classified as acute inhalation toxicity,
category 3.
Slightly toxic by inhalation

Acute dermal toxicity : LD 50 Rabbit: 12,800 mg/kg
The component/mixture is classified as acute dermal toxicity,
category 3.

Respiratory or skin sensitisation : Test Method: Maximisation Test (GPMT)
Species: Guinea pig
Classification: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

STOT - single exposure : Exposure routes: inhalation (vapour)
Target Organs: Central nervous system, Eyes
Assessment: The substance or mixture is classified as specific
target organ toxicant, single exposure, category 1.

Exposure routes: Skin contact
Target Organs: Central nervous system, Eyes
Assessment: The substance or mixture is classified as specific
target organ toxicant, single exposure, category 1.

Exposure routes: Ingestion
Target Organs: Central nervous system, Eyes
Assessment: The substance or mixture is classified as specific
target organ toxicant, single exposure, category 1.

ETHYL BENZENE:

Acute oral toxicity : LD 50 Rat: ca. 3,500 mg/kg

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- Acute inhalation toxicity : LC Lo Rat: 4000 ppm
Exposure time: 4 h
- Acute dermal toxicity : LD 50 Rabbit: 17,800 mg/kg
- STOT - repeated exposure : Target Organs: Auditory system
Assessment: May cause damage to organs through prolonged or
repeated exposure.
- Aspiration toxicity : May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

No data available

Components:

ACETONE:

- Toxicity to fish : LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)):
4,740 - 6,330 mg/l
Exposure time: 96 h
Test Method: static test
- LC 50 (Fathead minnow (Pimephales promelas)): 8,733 - 9,482
mg/l
Exposure time: 96 h
Test Method: flow-through test
- Toxicity to algae : NOEC (Microcystis aeruginosa): 530 mg/l
Exposure time: 8 d
Test Method: static test
- Toxicity to daphnia and other
aquatic invertebrates (Chronic
toxicity) : NOEC: 2,112 mg/l
Exposure time: 28 d
Species: Daphnia magna (Water flea)
Test Method: flow-through test

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XYLENE:

- Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 23.53 - 29.97 mg/l
Exposure time: 96 h
Test Method: static test
- Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): > 100 - < 1,000 mg/l
Exposure time: 24 h
Test Method: static test

METHANOL:

- Toxicity to fish : LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*)): 18,000 - 20,000 mg/l
Exposure time: 96 h
Test Method: static test
- Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): > 10,000 mg/l
Exposure time: 48 h
Test Method: static test

ETHYL BENZENE:

- Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 9.1 - 15.6 mg/l
Exposure time: 96 h
Test Method: static test
- LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*)): 4.2 mg/l
Exposure time: 96 h
Test Method: Renewal
- Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 1.37 - 4.4 mg/l
Exposure time: 48 h
Test Method: static test
- Toxicity to algae : (*Pseudokirchneriella subcapitata* (green algae)): 3.6 mg/l
Exposure time: 96 h
Test Method: Growth inhibition

Persistence and degradability

Product:

No data available

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Components:

ACETONE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90.9 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

XYLENE:

Physico-chemical removability : The product evaporates readily.

METHANOL:

Biodegradability : Biodegradation: 99 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

ETHYL BENZENE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 - 80 %
Exposure time: 28 d

Bioaccumulative potential

Product:

No data available

Components:

ACETONE:

Partition coefficient: n-
octanol/water : log Pow: -0.24

XYLENE:

Partition coefficient: n-
octanol/water : log Pow: 3.16

METHANOL:

Bioaccumulation : Species: Green algae (Chlorella fusca vacuolata)

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Exposure time: 24 h
Concentration: 0.05 mg/l
Bioconcentration factor (BCF): 28,400
Method: Static

Partition coefficient: n-
octanol/water : log Pow: -0.77

ETHYL BENZENE:

Partition coefficient: n-
octanol/water : log Pow: 3.15

Mobility in soil

Product:

No data available

Components:

ACETONE:

Surface tension : 23.7 mN/m

CARBON DIOXIDE:

Surface tension : 16.2 mN/m

METHANOL:

Surface tension : 22.61 mN/m

ETHYL BENZENE:

Surface tension : 4.3 N/m

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

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REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

	ORM-D, CONSUMER COMMODITY	ORM			
--	---------------------------	-----	--	--	--

U.S. DOT - RAIL

	ORM-D, CONSUMER COMMODITY	ORM			
--	---------------------------	-----	--	--	--

U.S. DOT - INLAND WATERWAYS

	ORM-D, CONSUMER COMMODITY	ORM			
--	---------------------------	-----	--	--	--

TRANSPORT CANADA - ROAD

UN	1950	AEROSOLS	2.1		
----	------	----------	-----	--	--

TRANSPORT CANADA - RAIL

UN	1950	AEROSOLS	2.1		
----	------	----------	-----	--	--

TRANSPORT CANADA - INLAND WATERWAYS

UN	1950	AEROSOLS	2.1		
----	------	----------	-----	--	--

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1950	AEROSOLS	2.1		
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1950	Aerosols, flammable	2.1		
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1950	Aerosols, flammable	2.1		
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1950	AEROSOLS	2		
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***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

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 to the State of California to cause cancer.

ETHYL BENZENE
 BENZENE

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

METHANOL
 TOLUENE
 BENZENE

SARA Hazard Classification SARA 311/312 Classification

Sudden Release of Pressure Hazard
 Acute Health Hazard
 Chronic Health Hazard
 Fire Hazard

SARA 313 Component(s)

XYLENE	6.11 %
METHANOL	3.72 %
ETHYL BENZENE	1.83 %

New Jersey RTK Label Information

ACETONE	67-64-1
XYLENE	1330-20-7
CARBON DIOXIDE	124-38-9
METHANOL	67-56-1
ETHYL BENZENE	100-41-4

Pennsylvania RTK Label Information

ACETONE	67-64-1
XYLENE	1330-20-7
CARBON DIOXIDE	124-38-9
METHANOL	67-56-1
ETHYL BENZENE	100-41-4

Notification status

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US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Japan. ENCS - Existing and New Chemical Substances Inventory	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	1636 lbs
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Reportable quantity-Components

XYLENE	1330-20-7	100 lbs
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	HMIS	NFPA
Health	2*	2
Flammability	4	4
Physical hazards	0	
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).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

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ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
DOT : Department of Transportation
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC : Hazardous Materials Information Review Commission
HMIS : Hazardous Materials Identification System
NFPA : National Fire Protection Association
NIOSH : National Institute for Occupational Safety and Health
OSHA : Occupational Safety and Health Administration
PMRA : Health Canada Pest Management Regulatory Agency
RTK : Right to Know
WHMIS : Workplace Hazardous Materials Information System