



SAFETY DATA SHEET

Revision Date: 01/13/2012

Print Date: 6/20/2012

MSDS Number: 000000132750

Version: 1.1

Valvoline™ BRAKE PARTS CLEANER
681046

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 Valvoline™ BRAKE PARTS CLEANER

Product code 681046

APPROVED MATERIAL
JUL 13 2012
MSDS # 10904
APPROVED BY <i>[Signature]</i>

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: aerosol

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

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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.).

Aggravated Medical Condition

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

Symptoms

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

Target Organs

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., This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, blood abnormalities, central nervous system damage, cardiac sensitization,

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

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
ACETONE	67-64-1	>=70-<80%
XYLENE	1330-20-7	>=5-<10%
METHANOL	67-56-1	>=5-<10%
CARBON DIOXIDE	124-38-9	>=5-<10%
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.

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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 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. 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. 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.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray, Dry chemical, Carbon dioxide (CO₂)

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, Aldehydes

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

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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

Flammable Liquid Class IA

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 for non-conductive containers. Use proper bonding and

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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
CAD AB OEL	time weighted average	500 ppm
CAD AB OEL	time weighted average	1,200 mg/m3
CAD AB OEL	Short term exposure limit	750 ppm
CAD AB OEL	Short term exposure limit	1,800 mg/m3
CAD BC OEL	time weighted average	250 ppm
CAD BC OEL	Short term exposure limit	500 ppm
CAD ON OEL	time weighted average	500 ppm
CAD ON OEL	Short term exposure limit	750 ppm
OEL (QUE)	time weighted average	500 ppm
OEL (QUE)	time weighted average	1,190 mg/m3
OEL (QUE)	Short term exposure limit	1,000 ppm
OEL (QUE)	Short term exposure limit	2,380 mg/m3
CAD MB OEL	time weighted average	500 ppm
CAD MB OEL	Short term exposure limit	750 ppm
XYLENE		1330-20-7
CAD AB OEL	time weighted average	100 ppm
CAD AB OEL	time weighted average	434 mg/m3
CAD AB OEL	Short term exposure limit	150 ppm
CAD AB OEL	Short term exposure limit	651 mg/m3
CAD BC OEL	time weighted average	100 ppm
CAD BC OEL	time weighted average	0.5 ppm
CAD BC OEL	Short term exposure limit	150 ppm
OEL (QUE)	time weighted average	100 ppm
OEL (QUE)	time weighted average	434 mg/m3
OEL (QUE)	Short term exposure limit	150 ppm
OEL (QUE)	Short term exposure limit	651 mg/m3
CAD MB OEL	time weighted average	100 ppm
CAD MB OEL	Short term exposure limit	150 ppm
CAD ON OEL	time weighted average	100 ppm
CAD ON OEL	Short term exposure limit	150 ppm

Vapor and aerosol,
inhalable

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METHANOL		67-56-1
CAD AB OEL	time weighted average	200 ppm
CAD AB OEL	time weighted average	262 mg/m3
CAD AB OEL	Short term exposure limit	250 ppm
CAD AB OEL	Short term exposure limit	328 mg/m3
CAD BC OEL	time weighted average	200 ppm
CAD BC OEL	Short term exposure limit	250 ppm
CAD ON OEL	time weighted average	200 ppm
CAD ON OEL	Short term exposure limit	250 ppm
OEL (QUE)	time weighted average	200 ppm
OEL (QUE)	time weighted average	262 mg/m3
OEL (QUE)	Short term exposure limit	250 ppm
OEL (QUE)	Short term exposure limit	328 mg/m3
CAD MB OEL	time weighted average	200 ppm
CAD MB OEL	Short term exposure limit	250 ppm
CARBON DIOXIDE		124-38-9
CAD AB OEL	time weighted average	5,000 ppm
CAD AB OEL	time weighted average	9,000 mg/m3
CAD AB OEL	Short term exposure limit	30,000 ppm
CAD AB OEL	Short term exposure limit	54,000 mg/m3
CAD BC OEL	time weighted average	5,000 ppm
CAD BC OEL	Short term exposure limit	15,000 ppm
CAD ON OEL	time weighted average	5,000 ppm
CAD ON OEL	Short term exposure limit	30,000 ppm
OEL (QUE)	time weighted average	5,000 ppm
OEL (QUE)	time weighted average	9,000 mg/m3
OEL (QUE)	Short term exposure limit	30,000 ppm
OEL (QUE)	Short term exposure limit	54,000 mg/m3
CAD MB OEL	time weighted average	5,000 ppm
CAD MB OEL	Short term exposure limit	30,000 ppm
ETHYL BENZENE		100-41-4
CAD AB OEL	time weighted average	100 ppm
CAD AB OEL	time weighted average	434 mg/m3
CAD AB OEL	Short term exposure limit	125 ppm
CAD AB OEL	Short term exposure limit	543 mg/m3
CAD BC OEL	time weighted average	100 ppm
CAD BC OEL	Short term exposure limit	125 ppm
CAD ON OEL	time weighted average	100 ppm
CAD ON OEL	Short term exposure limit	125 ppm
OEL (QUE)	time weighted average	100 ppm
OEL (QUE)	time weighted average	434 mg/m3
OEL (QUE)	Short term exposure limit	125 ppm
OEL (QUE)	Short term exposure limit	543 mg/m3
CAD MB OEL	time weighted average	20 ppm

General advice

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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
Boiling point/boiling range	-109.3 °F / -78.5 °C Calculated Phase Transition Liquid/Gas

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Flash point	-4 °F / -20 °C Calculated Flash Point
Lower explosion limit/Upper explosion limit	1 %(V) / 36 %(V) Calculated Explosive Limit
Vapour pressure	*,***,.560 hPa @ 77 °F / 25 °C Calculated Vapor Pressure
Density	0.756 g/cm3 @ 70.0 °F / 21.1 °C

10. STABILITY AND REACTIVITY

Stability

Stable. Stable.

Conditions to avoid

Heat, flames and sparks. Heat, flames and sparks.

Incompatible products

Acids, alkalis, Amines, Ammonia, halogens, peroxides, Reducing agents, Strong oxidizing agents, aluminum, calcium hypochlorite, hypochlorites, Lead, Peroxides, sodium, Zinc

Hazardous decomposition products

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

Acute oral toxicity

Acute oral toxicity - Product : no data available

Acute oral toxicity - Components

ACETONE : LD 50: 5,800 mg/kg Species: Rat

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XYLENE	: LD 50: 4,300 mg/kg Species: Rat
METHANOL	: LD L0: 300 mg/kg Species: Human
ETHYL BENZENE	: LD 50: 3,500 mg/kg Species: Rat

Acute inhalation toxicity

Acute inhalation toxicity - Product : no data available

Acute inhalation toxicity - Components

ACETONE	: LC 50: > 16000 ppm Exposure time: 4 h Species: Rat
XYLENE	: LC 50: 6700 ppm Exposure time: 4 h Species: Rat
METHANOL	: LC 50: 64000 ppm Exposure time: 4 h Species: Rat
	Remarks: Slightly toxic by inhalation
ETHYL BENZENE	: LC Lo: 4000 ppm Exposure time: 4 h Species: Rat

Acute dermal toxicity

Acute dermal toxicity - Product : no data available

Acute dermal toxicity - Components

ACETONE	: LD 50: > 20,000 mg/kg Species: Rabbit
XYLENE	: LD 50: > 2,000 mg/kg Species: Rabbit
METHANOL	: LD 50: 12,800 mg/kg Species: Rabbit
ETHYL BENZENE	: LD 50: 17,800 mg/kg Species: Rabbit

Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

METHANOL : 99 % Method: OECD Test Guideline 301D

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Bioaccumulation

Bioaccumulation - Product : no data available

Bioaccumulation - Components

METHANOL : Species: Green algae (*Chlorella fusca vacuolata*) Exposure
time: 24 h Concentration: 0.05 mg/l Bioconcentration
factor (BCF): 28,400 Method: Static

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

ACETONE : LC 50: 4,740 - 6,330 mg/l
Exposure time: 96 h
Species: Rainbow trout,donaldson trout (*Oncorhynchus mykiss*)
Test Type: static test
LC 50: 8,733 - 9,482 mg/l
Exposure time: 96 h
Species: Fathead minnow (*Pimephales promelas*)
Test Type: flow-through testXYLENE : LC 50: 23.53 - 29.97 mg/l
Exposure time: 96 h
Species: Fathead minnow (*Pimephales promelas*)
Test Type: static testMETHANOL : LC 50: 18,000 - 20,000 mg/l
Exposure time: 96 h
Species: Rainbow trout,donaldson trout (*Oncorhynchus mykiss*)
Test Type: static testETHYL BENZENE : LC 50: 9.1 - 15.6 mg/l
Exposure time: 96 h
Species: Fathead minnow (*Pimephales promelas*)

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Test Type: static test
LC 50: 4.2 mg/l
Exposure time: 96 h
Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss)
Test Type: Renewal

Toxicity to daphnia and other aquatic invertebrates.

Toxicity to daphnia and other aquatic invertebrates. : no data available
- Product

Toxicity to daphnia and other aquatic invertebrates. - Components

XYLENE : LC 50: > 100 - < 1,000 mg/l
Exposure time: 24 h
Species: Water flea (Daphnia magna)
Test Type: static test

METHANOL : EC 50: > 10,000 mg/l
Exposure time: 48 h
Species: Water flea (Daphnia magna)
Test Type: static test

ETHYL BENZENE : EC 50: 1.37 - 4.4 mg/l
Exposure time: 48 h
Species: Water flea (Daphnia magna)
Test Type: static test

Toxicity to algae

Toxicity to algae - Product : no data available

Toxicity to algae - Components

ETHYL BENZENE : 3.6 mg/l
Exposure time: 96 h
Species: Pseudokirchneriella subcapitata (green algae)
Test Type: Growth inhibition

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Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
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13. DISPOSAL CONSIDERATIONS

Waste disposal methods

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

14. TRANSPORT INFORMATION

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			
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U.S. DOT - RAIL

	ORM-D, CONSUMER COMMODITY	ORM			
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U.S. DOT - INLAND WATERWAYS

	ORM-D, CONSUMER COMMODITY	ORM			
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TRANSPORT CANADA - ROAD

UN 1950	AEROSOLS	2.1			
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TRANSPORT CANADA - RAIL

UN 1950	AEROSOLS	2.1			
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TRANSPORT CANADA - INLAND WATERWAYS

UN	1950	AEROSOLS	2.1
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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

WHMIS Classification

A Compressed Gas

B5 Flammable aerosol

D1B Toxic Material Causing Immediate and Serious Toxic Effects

D2A Very Toxic Material Causing Other Toxic Effects

D2B Toxic Material Causing Other Toxic Effects

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Canadian National Pollutant Release Inventory (NPRI)

XYLENE	8.57 %
METHANOL	7.42 %
ETHYL BENZENE	2.44 %

Notification status

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)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Japan. Kashin-Hou Law List	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)

	HMIS	NFPA
Health	2*	2
Flammability	4	4
Physical hazards	0	
Instability		0
Specific Hazard	--	--

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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).