

ASHLAND®

SAFETY DATA SHEET

Page: 1

Revision Date: 09/30/2014

Print Date: 1/3/2015

MSDS Number: R0278955

Version: 1.6

Pyroil™ WHITE GREASE (LITHIUM)

PYWLG11B

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

Ashland P.O. Box 2219 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone number	1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)
Product name	Pyroil™ WHITE GREASE (LITHIUM)	
Product code	PYWLG11B	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: aerosol, white

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

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

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts 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

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Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), auditory system, 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: metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), loss of appetite, Lack of coordination, irregular heartbeat, narcosis (dazed or sluggish feeling)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: effects on hearing

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). 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

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed. There are no data available for assessing risk to the fetus from maternal exposure to this material. Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
ZINC OXIDE	1314-13-2	>=1%
PROPANE	74-98-6	>=1%
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5	>=1%
n-HEPTANE	142-82-5	>=1%

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.

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Skin

Remove contaminated clothing. Wash exposed area with soap and water. If 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: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. 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 hazards which require special first aid measures.

5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Water mist, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, Ketones, metal oxides, Nitrogen oxides (NO_x), Sulphur oxides

Precautions for fire-fighting

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).

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Ventilate area.

Environmental precautions

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No data.

Methods for cleaning up

Allow to evaporate. Persons not wearing protective equipment should be excluded from area until leak has been repaired.

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.

Storage

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ZINC OXIDE		1314-13-2	
ACGIH	time weighted average	2 mg/m3	Respirable fraction.
ACGIH	Short term exposure limit	10 mg/m3	Respirable fraction.
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Dust
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Fume.
NIOSH	Ceiling Limit Value and Time Period (if specified):	15 mg/m3	Dust
NIOSH	Short term exposure limit	10 mg/m3	Fume.
OSHA Z1	Permissible exposure limit	15 mg/m3	Total dust.
OSHA Z1	Permissible exposure limit	5 mg/m3	Fume.
OSHA Z1	Permissible exposure limit	5 mg/m3	Respirable fraction.
OSHA Z1A	time weighted average	10 mg/m3	Total dust.
OSHA Z1A	time weighted average	5 mg/m3	Fume.
OSHA Z1A	time weighted average	5 mg/m3	Respirable fraction.
OSHA Z1A	Short Term Exposure Limit (STEL):	10 mg/m3	Fume.
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	5 mg/m3	Fume.
US CA OEL	Short Term Exposure Limit (STEL):	10 mg/m3	Fume.
PROPANE		74-98-6	

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NIOSH	Recommended exposure limit (REL):	1,000 ppm	
NIOSH	Recommended exposure limit (REL):	1,800 mg/m3	
OSHA Z1	Permissible exposure limit	1,000 ppm	
OSHA Z1	Permissible exposure limit	1,800 mg/m3	
OSHA Z1A	time weighted average	1,000 ppm	
OSHA Z1A	time weighted average	1,800 mg/m3	
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	1,000 ppm	
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	1,800 mg/m3	

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA **64742-52-5**

OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,000 mg/m3	
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Mist.
NIOSH	Short term exposure limit	10 mg/m3	Mist.
OSHA Z1	Permissible exposure limit	5 mg/m3	Mist.

n-HEPTANE **142-82-5**

NIOSH	Recommended exposure limit (REL):	85 ppm	
NIOSH	Recommended exposure limit (REL):	350 mg/m3	
NIOSH	Ceiling Limit Value and Time Period (if specified):	440 ppm	
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3	
OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,000 mg/m3	
ACGIH	time weighted average	400 ppm	
ACGIH	Short Term Exposure Limit (STEL):	500 ppm	

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

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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

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product. 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

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	aerosol
Colour	white
Odour	solvent-like
pH	(Average) 10.5
Evaporation rate	(<)1 n-Butyl Acetate
Density	0.884 g/cm ³
Water solubility	insoluble

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat, flames and sparks.

Incompatible products

alkalis, chlorinated rubber, lithium, magnesium, Strong acids, Strong oxidizing agents

Hazardous decomposition products

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carbon dioxide and carbon monoxide, Hydrocarbons, metal oxides

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
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: Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, effects on hearing

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:**ZINC OXIDE:**

Acute oral toxicity : LD 50 Rat: > 5 g/kg

Acute inhalation toxicity : LC 50 Rat: > 5.7 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist
No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 Rat: > 2,000 mg/kg
Method: OECD Test Guideline 402
No adverse effect has been observed in acute dermal toxicity tests.

Respiratory or skin sensitisation : Test Method: Maximisation Test (GPMT)
Species: Guinea pig
Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro : In vitro tests did not show mutagenic effects
Genotoxicity in vivo : Type: Micronucleus test
Test species: Mouse
Method: OECD Test Guideline 474
Result: negative

PROPANE:

Acute inhalation toxicity : LC 50 Rat: > 12190 ppm
Exposure time: 4 h

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

Acute oral toxicity : LD 50 Rat: > 5 g/kg

Acute inhalation toxicity : LC50 Rat: > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 Rabbit: > 2,000 mg/kg
Not classified as acutely toxic by dermal absorption under GHS.
No mortality observed at this dose.

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

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

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- Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.
- STOT - repeated exposure : Exposure routes: Skin contact
Target Organs: Adrenal gland, Bone marrow, Liver, Immune system, Kidney, Stomach, thymus gland
Assessment: Causes damage to organs through prolonged or repeated exposure.
- Aspiration toxicity : May be fatal if swallowed and enters airways.
- n-HEPTANE:**
- Acute oral toxicity : LD 50 Rat: Expected > 5,000 mg/kg
Information given is based on data obtained from similar substances.
- Acute inhalation toxicity : LC 50 Rat, male and female: > 29.29 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
No adverse effect has been observed in acute inhalation toxicity tests.
- Acute dermal toxicity : LD 50 Rabbit: Expected > 2,000 mg/kg
Not classified as acutely toxic by dermal absorption under GHS.
Information given is based on data obtained from similar substances.
- Respiratory or skin sensitisation : Test Method: Maximisation Test (GPMT)
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Information given is based on data obtained from similar substances.
- Germ cell mutagenicity
- Genotoxicity in vitro : Type: Chromosome aberration test in vitro
Test species: rat hepatocytes
Result: negative
Method: OECD Test Guideline 473
- : Type: Ames test
Result: negative
Method: OECD Test Guideline 471

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STOT - single exposure : Assessment: May cause drowsiness or dizziness.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

No data available

Components:

ZINC OXIDE:

- Toxicity to fish : LC 50 (Danio rerio (zebra fish)): 1.793 mg/l
Exposure time: 96 h
Test Method: static test
- Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 2.6 mg/l
Exposure time: 48 h
Test Method: static test
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.136 mg/l
Exposure time: 72 h
Test Method: static test
Method: OECD Test Guideline 201
- M-Factor : 1
- Toxicity to fish (Chronic toxicity) : NOEC: 0.026 mg/l
Exposure time: 30 d
Growth rate
Species: Jordanella floridae (flagfish)
Test Method: flow-through test
Information given is based on data obtained from similar substances.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.297 mg/l
Exposure time: 10 d
Reproduction Test
Species: Aquatic invertebrates
Information given is based on data obtained from similar substances.

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Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1

Chronic aquatic toxicity : Chronic aquatic toxicity Category 1

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

- Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Method: static test
Test substance: WAF
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Method: static test
Test substance: WAF
Method: OECD Test Guideline 202
- Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
Exposure time: 72 h
Test Method: static test
Test substance: WAF
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)
Test Method: semi-static test
Test substance: WAF
Method: OECD Test Guideline 211

n-HEPTANE:

- Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 1.5 mg/l
Exposure time: 48 h
Test Method: static test
- LC 50 (Mysidopsis bahia (opossum shrimp)): 0.1 mg/l
Exposure time: 96 h
Test Method: semi-static test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 1 mg/l
Exposure time: 21 d
Species: Water flea (Daphnia magna)

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Test Method: static test
Test substance: WAF
Method: OECD Test Guideline 211
Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

No data available

Components:

ZINC OXIDE:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Biodegradability : Result: Inherently biodegradable
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

n-HEPTANE:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Product:

No data available

Components:

ZINC OXIDE:

Bioaccumulation : Bioaccumulation is unlikely.

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PROPANE:

Partition coefficient: n-octanol/water : log Pow: 2.36

n-HEPTANE:

Partition coefficient: n-octanol/water : log Pow: 4.66

Mobility in soil

Product:

No data available

Components:

PROPANE:

Surface tension : 16 mN/m

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. Ventilate area of spill. Allow material to evaporate.

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

UN 1950	Aerosols	2.1			
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U.S. DOT - RAIL

UN 1950	Aerosols	2.1			
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U.S. DOT - INLAND WATERWAYS

UN 1950	Aerosols	2.1			
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TRANSPORT CANADA - ROAD

UN	1950	AEROSOLS	2.1
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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	MARINE POLLUTANT:(HEPTANE)
----	------	----------	-----	-----------------------------------

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1950	Aerosols, flammable	2.1
----	------	---------------------	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1950	Aerosols, flammable	2.1
----	------	---------------------	-----

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 birth defects or other reproductive harm.

TOLUENE

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SARA Hazard Classification
SARA 311/312 Classification

Acute Health Hazard
 Fire Hazard
 Sudden Release of Pressure Hazard

SARA 313 Component(s)

ZINC OXIDE	100.00 %
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New Jersey RTK Label Information

ZINC OXIDE	1314-13-2
PROPANE	74-98-6
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Pennsylvania RTK Label Information

ZINC OXIDE	1314-13-2
PROPANE	74-98-6
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5
n-HEPTANE	142-82-5

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)	n (Negative listing)
Australia. Industrial Chemical (Notification and Assessment) Act	n (Negative listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	n (Negative listing)
Japan. Kashin-Hou Law List	n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	n (Negative listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	n (Negative 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	--	--

16. OTHER INFORMATION

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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

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