SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name: PARTS Master® 80W90 GEAR OIL

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet
Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America

Emergency telephone number
1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number
1-800-325-3751

Product Information
614-790-3333

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin irritation: Category 2
Eye irritation: Category 2A
Skin sensitization: Category 1

GHS Label element
Hazard pictograms:

Signal Word: Warning

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary Statements: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/ face protection. Wear protective gloves.

**Response:**
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Chemical nature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mixture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (%)</th>
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</thead>
<tbody>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC</td>
<td>64742-62-7</td>
<td>Not a hazardous substance or mixture.</td>
<td>21.10</td>
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<tr>
<td>MINERAL OIL</td>
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<td>Not a hazardous substance or mixture.</td>
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<tr>
<td>ALKYL PHOSPHATE</td>
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<td>Skin Corr. 1B; H314</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Dam. 1; H318</td>
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<tr>
<td></td>
<td></td>
<td>STOT SE 3; H335</td>
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</tr>
<tr>
<td>LONG-CHAIN ALKYL AMINE</td>
<td></td>
<td>Acute Tox. 4; H302</td>
<td>0.34</td>
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<td></td>
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<td>Acute Tox. 2; H330</td>
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<tr>
<td></td>
<td></td>
<td>Acute Tox. 3; H311</td>
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</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice:
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled:
If breathed in, move person into fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact:
Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.

In case of eye contact:
Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.

If swallowed:
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed:
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)
Dizziness
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Notes to physician:
No hazards which require special first aid measures.
SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Water spray
- Foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: carbon dioxide and carbon monoxide
- Hydrocarbons
- Oxides of phosphorus

Specific extinguishing methods: Product is compatible with standard fire-fighting agents.

Further information: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions: Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Other information: Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE
Advice on safe handling: Do not breathe vapours/dust. Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Components with workplace control parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Components</strong></td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC</td>
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<td></td>
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<tr>
<td>MINERAL OIL</td>
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</tbody>
</table>

Engineering measures: 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.

**Personal protective equipment**

**Hand protection**

**Remarks**

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

**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 as appropriate:
- impervious clothing
- Safety shoes
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Discard gloves that show tears, pinholes, or signs of wear.
- Wear resistant gloves (consult your safety equipment supplier).

**Hygiene measures**

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

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state**

: liquid

**Colour**

: amber

**Odour**

: No data available

**Odour Threshold**

: No data available

**pH**

: No data available

**Boiling point/boiling range**

: > 424.9 °F / 218.3 °C (1013.333 hPa)

**Flash point**

: > 432 °F / > 222 °C

Method: Cleveland open cup

**Evaporation rate**

: > 1

Ethyl Ether

**Flammability (solid, gas)**

: No data available

**Upper explosion limit**

: No data available
Lower explosion limit : No data available
Vapour pressure : < 0.100000 mmHg
Relative vapour density : > 1AIR=1
Relative density : 0.89 (60.00 °F)

Density : 0.8916 g/cm3 (15.56 °C)

Solubility(ies)
Water solubility : No data available
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : 146 mm2/s (40 °C)

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
Incompatible materials : Strong oxidizing agents
Hazardous decomposition products : carbon dioxide and carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity**
Not classified based on available information.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>LD 50 (Rat): &gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>

Acute inhalation toxicity:
- **LD 50 (Rat):** > 5,58 mg/l
- **Exposure time:** 4 h
- **Test atmosphere:** dust/mist
- **Assessment:** Not classified as acutely toxic by inhalation under GHS.
- **Remarks:** No mortality observed at this dose.

Acute dermal toxicity:
- **LD 50 (Rabbit):** > 5,000 mg/kg
- **Remarks:** No mortality observed at this dose.

### Skin corrosion/irritation
Causes skin irritation.

**Product:**
Remarks: May cause skin irritation and/or dermatitis.

**Result:** Repeated exposure may cause skin dryness or cracking.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:
- **Species:** Rabbit
- **Result:** Not irritating to skin

MINERAL OIL:
- **Result:** Mildly irritating to skin

ALKYL PHOSPHATE:
- **Result:** Corrosive to skin

LONG-CHAIN ALKYL AMINE:
- **Result:** Corrosive after 3 minutes to 1 hour of exposure
Serious eye damage/eye irritation
Causes serious eye irritation.

**Product:**
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:
Species: Rabbit
Result: Not irritating to eyes

MINERAL OIL:
Result: Mildly irritating to eyes

ALKYL PHOSPHATE:
Result: Corrosive to eyes

LONG-CHAIN ALKYL AMINE:
Result: Corrosive to eyes

**Respiratory or skin sensitisation**
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:
Test Type: Buehler Test
Species: Guinea pig
Assessment: Does not cause skin sensitisation.

LONG-CHAIN ALKYL AMINE:
Assessment: May cause sensitisation by skin contact.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**Reproductive toxicity**
Not classified based on available information.

**STOT - single exposure**
Not classified based on available information.

**Components:**
ALKYL PHOSPHATE:
Assessment: May cause respiratory irritation.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

**Product:**
No aspiration toxicity classification

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:
No aspiration toxicity classification

**Further information**

**Product:**

Remarks: No data available

**Carcinogenicity:**

**IARC**

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

**OSHA**

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

**NTP**

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

---

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:

<table>
<thead>
<tr>
<th>Toxicity to fish</th>
<th>LL50 (Pimephales promelas (fathead minnow)): &gt; 100 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>96 h</td>
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<tr>
<td>Test Type</td>
<td>static test</td>
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<tr>
<td>Test substance</td>
<td>WAF</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 203</td>
</tr>
<tr>
<td>Remarks</td>
<td>No toxicity at the limit of solubility</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>EL50 (Daphnia magna (Water flea)): &gt; 10,000 mg/l</th>
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</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>48 h</td>
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<tr>
<td>Test Type</td>
<td>static test</td>
</tr>
<tr>
<td>Test substance</td>
<td>WAF</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 202</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to algae</th>
<th>NOEL (Pseudokirchneriella subcapitata (green algae)): &gt;= 100 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>End point</td>
<td>Growth inhibition</td>
</tr>
<tr>
<td>Exposure time</td>
<td>72 h</td>
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<tr>
<td>Test Type</td>
<td>static test</td>
</tr>
<tr>
<td>Test substance</td>
<td>WAF</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 201</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to fish (Chronic toxicity)</th>
<th>NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated &gt;= 1,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>14 d</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>NOEL (Daphnia (water flea)): 10 mg/l</th>
</tr>
</thead>
</table>
aquatic invertebrates Exposure time: 21 d  
(Chronic toxicity) Test substance: WAF  
Method: OECD Test Guideline 211

LONG-CHAIN ALKYL AMINE:  
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  

Components:  
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Bioaccumulative potential  

Components:  
No data available

Mobility in soil  
Components:  
No data available

Other adverse effects  
No data available

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

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods  
General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste
handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>ID NUMBER</th>
<th>PROPER SHIPPING NAME</th>
<th>*HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
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<tbody>
<tr>
<td>U.S. DOT - ROAD</td>
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<td>U.S. DOT - RAIL</td>
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<tr>
<td>TRANSPORT CANADA - ROAD</td>
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<td>TRANSPORT CANADA - RAIL</td>
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<td>TRANSPORT CANADA - INLAND WATERWAYS</td>
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<td>Not dangerous goods</td>
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<tr>
<td>INTERNATIONAL MARITIME DANGEROUS GOODS</td>
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<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO</td>
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<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER</td>
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<td>Not dangerous goods</td>
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<tr>
<td>MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES</td>
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<tr>
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<td></td>
<td>Not dangerous goods</td>
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<td></td>
</tr>
</tbody>
</table>
**ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

<table>
<thead>
<tr>
<th>Marine pollutant</th>
<th>no</th>
</tr>
</thead>
</table>

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.

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards**
- Acute Health Hazard

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

**Pennsylvania Right To Know**
- HEAVY PARAFFINIC DISTILLATE 64742-54-7 70.00 - 90.00 %
- DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC 64742-62-7 20.00 - 30.00 %
- LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 %

**New Jersey Right To Know**
- HEAVY PARAFFINIC DISTILLATE 64742-54-7 70.00 - 90.00 %
- DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC 64742-62-7 20.00 - 30.00 %
- LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 %
- MINERAL OIL Not Assigned 1.00 - 5.00 %
- ALKYL PHOSPHATE Not Assigned 1.00 - 5.00 %
- DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC 64742-65-0 0.10 - 1.00 %

**California Prop 65**
- Proposition 65 warnings are not required for this product based on the results of a risk assessment.

**The components of this product are reported in the following inventories:**
- **TSCA** : On TSCA Inventory
- **DSL** : All components of this product are on the Canadian DSL.
- **AUST** : On the inventory, or in compliance with the inventory
ENCS : On the inventory, or in compliance with the inventory
KECL : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information
Revision Date: 06/02/2015

<table>
<thead>
<tr>
<th>NFPA:</th>
<th>HMIS III:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>HEALTH</td>
</tr>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Instability</td>
<td>PHYSICAL HAZARD</td>
</tr>
</tbody>
</table>

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class III B

Full text of H-Statements referred to under sections 2 and 3.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Further information
Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS 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