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| SAFETY DATA SHEET | | Revision Date: 05/22/2015 |
| | | Print Date: 7/7/2015 |
| | | SDS Number: R0336576 |
| Eagle One™ ETCHING MAG WHEEL CLEANER | | Version: 1.0 |
| 836604 | | |

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Eagle One™ ETCHING MAG
WHEEL CLEANER

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 EHS Customer Requests@ashland.com | 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

Corrosive to Metals : Category 1
 Acute toxicity (Oral) : Category 4
 Acute toxicity (Dermal) : Category 3
 Skin corrosion : Category 1
 Serious eye damage : Category 1

GHS Label element

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : May be corrosive to metals.
 Harmful if swallowed.
 Toxic in contact with skin.
 Causes severe skin burns and eye damage.
 Causes serious eye damage.

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Precautionary Statements : **Prevention:**
 Keep only in original container.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
 Take off contaminated clothing and wash before reuse.
 Absorb spillage to prevent material damage.

Storage:
 Store locked up.
 Store in corrosive resistant stainless steel container with a resistant inner liner.

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

Other hazards
 None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical Name | CAS-No. | Classification | Concentration (%) |
|-----------------|-----------|---|-------------------|
| PHOSPHORIC ACID | 7664-38-2 | Met. Corr. 1; H290 Skin Corr. 1B; H314 | 13.96 |
| SULFURIC ACID | 7664-93-9 | Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 | 2.34 |

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| HYDROFLUORIC ACID | 7664-39-3 | Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 1; H310 Skin Corr. 1A; H314 | 1.60 |
| ALCOHOL ETHOXYLATE | | Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Aquatic Acute 2; H401 Aquatic Chronic 2; H411 | 1.30 |
| SODIUM 1-OCTANESULFONATE | 5324-84-5 | Skin Irrit. 2; H315 Eye Dam. 1; H318 | 1.20 |

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
Wash contaminated clothing before re-use.
Immediately flush contaminated skin with large quantities of cool running water for 5 minutes. Remove contaminated clothing while flushing contaminated skin. Immediately after washing, apply 2.5% calcium gluconate gel to all affected skin areas. (Note: If gel is not prepared within 5 minutes, continue flushing until gel is prepared.) The gel should be massaged

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into the affected skin by personnel wearing gloves to prevent skin contamination during first aid. Gel should be applied every 15 minutes and massaged continuously. Instead of calcium gluconate treatment, the affected areas may be soaked in iced 0.13% benzalkonium chloride solution (Zephiran chloride). Use ice cubes rather than shaved ice to prevent frostbite. If it is not practical to immerse affected area, towels should be soaked with iced 0.13% benzalkonium chloride solution and used as compresses for the burned area. Compresses should be changed every 2-3 minutes and continued until pain is relieved or victim is seen by a physician. If neither calcium gluconate nor benzalkonium chloride is available, use an iced saturated water solution of magnesium sulfate (Epsom salts), or if that is not available, iced 70% alcohol or ice water. Local anesthetics should be avoided since relief of pain indicates success of the treatment. ***Get medical attention as soon as possible.***

NOTE: Calcium gluconate gel can be prepared by mixing a 10 milliliter ampule of calcium gluconate with a 2-ounce tube of K-Y jelly (Johnson & Johnson). After a jar of this mixture has been opened and used, it should be discarded to prevent bacterial or chemical contamination.

- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
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 : Harmful if swallowed.
Toxic in contact with skin.
Causes serious eye damage.
Causes severe burns.
Pulmonary edema may be delayed.
This product contains hydrofluoric acid (HF). Acute local effects from HF exposure are concentration-dependent. If untreated or exposure is prolonged, even dilute solutions of HF can cause delayed toxicity following penetration to subcutaneous tissue. Acute systemic toxicity is largely dependent upon the total amount of fluoride ion absorbed. Thus ingestion, skin contact or significant inhalation can cause severe systemic effects including electrolyte (calcium, magnesium, potassium) and acid-base abnormalities with resulting cardiovascular effects. Exposure of >5% of the body surface area with any concentration of HF may predispose the patient to development of hypocalcemia. Chronic exposure to less than acutely toxic amounts of HF is a low toxicity hazard.

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Repeated exposure and absorption of 10-80 mg of fluoride per day may produce systemic fluorosis.

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)

Cough

choking

Headache

lung edema (fluid buildup in the lung tissue)

Difficulty in breathing

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 : Oxides of phosphorus
corrosive vapors
sulfur oxides
toxic fumes
acid vapors
Hydrogen fluoride
carbon dioxide and carbon monoxide
Hydrocarbons
sulfur dioxide
Sulphur oxides

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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
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 : 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 : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
When diluting, always add the product to water. Never add water to the product.
Container hazardous when empty.
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.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------|---------|----------------------------------|---|-------|
| | | | | |

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|-------------------|-----------|-----------|---------------------------------|-------------|
| PHOSPHORIC ACID | 7664-38-2 | TWA | 1 mg/m3 | ACGIH |
| | | STEL | 3 mg/m3 | ACGIH |
| | | REL | 1 mg/m3 | NIOSH/GUIDE |
| | | STEL | 3 mg/m3 | NIOSH/GUIDE |
| | | PEL | 1 mg/m3 | OSHA_TRANS |
| SULFURIC ACID | 7664-93-9 | TWA | 0.2 mg/m3 Thoracic fraction. | ACGIH |
| | | REL | 1 mg/m3 | NIOSH/GUIDE |
| | | PEL | 1 mg/m3 | OSHA_TRANS |
| | | TWA | 1 mg/m3 | TN OEL |
| HYDROFLUORIC ACID | 7664-39-3 | TWA | 0.5 ppm (as F) | ACGIH |
| | | Ceiling | 2 ppm (as F) | ACGIH |
| | | REL | 3 ppm 2.5 mg/m3 | NIOSH/GUIDE |
| | | Ceil_Time | 6 ppm 5 mg/m3 | NIOSH/GUIDE |
| | | TWA | 3 ppm | OSHA/Z2 |
| | | TWA | 3 ppm (as F) | TN OEL |
| | | STEL | 6 ppm (as F) | TN OEL |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|-------------------|-------------------------|--------------------|---------------------|-----------------------------------|---------------------------|-------|
| HYDROFLUORIC ACID | 7664-39-3 | Fluoride | Urine | Sampling time: Prior to shift. | 2 mg/l | |
| Remarks: | Background, Nonspecific | | | | | |
| | | Fluoride | Urine | Sampling time: End of shift. | 3 mg/l | |
| Remarks: | Background, Nonspecific | | | | | |

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

Respiratory protection : A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain

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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.

- 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 and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.
- Skin and body protection : Wear as appropriate:
impervious clothing
Chemical resistant apron
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 : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
When using do not eat or drink.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Colour : colourless
- Odour Threshold : No data available
- pH : 1
- Melting point/freezing point : No data available
- Boiling point/boiling range : 195.1 °F / 90.6 °C
(1,013.333333 hPa)
Calculated Phase Transition Liquid/Gas
- Flash point : Not applicable

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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 : 23.3333333 hPa (20 °C)
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 1.1

Density : 1.1 g/cm3

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 : No data available

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.

Conditions to avoid : excessive heat
Exposure to moisture

Incompatible materials : Acid anhydrides
Acids
Alcohols
Aldehydes
Amines

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Bases
carbide
carbonates
Combustible material
Copper
Cyanides
Fluorine
glycols
halogens
Metals
nitromethane
Organic materials
organic nitro compounds
Powdered metals
strong alkalis
Strong oxidizing agents
strong reducing agents
Sulphides
sulphites
water

Hazardous decomposition products

acid vapors
corrosive vapors
Hydrogen fluoride
Oxides of phosphorus
Sulphur oxides
toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Harmful if swallowed.
Toxic in contact with skin.

Components:

PHOSPHORIC ACID:

Acute oral toxicity : LD 50 (Rat): ca. 2,600 mg/kg

Acute inhalation toxicity : Remarks: Corrosive to respiratory system.

Acute dermal toxicity : LD 50 (Rabbit): 2,740 mg/kg

SULFURIC ACID:

Acute oral toxicity : LD 50 (Rat): 2,140 mg/kg

HYDROFLUORIC ACID:

Acute dermal toxicity : LD Lo (Mouse): 500 mg/kg

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ALCOHOL ETHOXYLATE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
 Remarks: Based on a similar product formulation.

Acute dermal toxicity : LD 50 (Rat): 3,300 mg/kg

SODIUM 1-OCTANESULFONATE:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
 Remarks: No mortality observed at this dose.

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: Causes severe skin burns and eye damage., Both the liquid and vapor can cause severe burns which may not be immediately painful or visible. Pain may become gradually more severe, possibly taking 1-24 hours to become noticeable. These burns can be very deep, possibly causing bone damage, and are very slow to heal. Even solutions containing 2% or less hydrogen fluoride or other inorganic fluoride compounds can cause burns and tissue damage.

Components:

PHOSPHORIC ACID:

Result: Corrosive to skin

SULFURIC ACID:

Result: Corrosive to skin

HYDROFLUORIC ACID:

Result: Corrosive to skin

ALCOHOL ETHOXYLATE:

Result: Irritating to skin

SODIUM 1-OCTANESULFONATE:

Result: Irritating to skin

Remarks: Expected

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

PHOSPHORIC ACID:

Result: Corrosive to eyes

SULFURIC ACID:

Result: Corrosive to eyes

HYDROFLUORIC ACID:

Result: Corrosive to eyes

ALCOHOL ETHOXYLATE:

Result: Severely irritating to eyes

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SODIUM 1-OCTANESULFONATE:
Result: Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

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.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Components:

SULFURIC ACID:

Remarks: Lung

HYDROFLUORIC ACID:

Remarks: Teeth

Remarks: Bone

Carcinogenicity:

IARC

Group 1: Carcinogenic to humans

SULFURIC ACID 7664-93-9

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

Known to be human carcinogen

SULFURIC ACID 7664-93-9

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

SULFURIC ACID:

Toxicity to fish : LC 50 (Western mosquitofish (Gambusia affinis)): 42 mg/l

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Exposure time: 96 h
Method: Static
Remarks: Mortality

ALCOHOL ETHOXYLATE:

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): 8.5 mg/l
Exposure time: 96 h
Remarks: Based on a similar product formulation.

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Daphnia (water flea)): 5.3 mg/l
Remarks: Based on a similar product formulation.

SODIUM 1-OCTANESULFONATE:

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 3,200 mg/l
Exposure time: 24 h
Test Type: static test

Persistence and degradability

ALCOHOL ETHOXYLATE:

Biodegradability : Remarks: Expected to be biodegradable

SODIUM 1-OCTANESULFONATE:

Biodegradability : Result: Readily biodegradable
Biodegradation: 84 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

SODIUM 1-OCTANESULFONATE:

Partition coefficient: n-octanol/water : log Pow: ca. -7

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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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****REGULATION**

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

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 | 3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | | II |
|----|------|--|---|--|----|

TRANSPORT CANADA - RAIL

| | | | | | |
|----|------|--|---|--|----|
| UN | 3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | | II |
|----|------|--|---|--|----|

TRANSPORT CANADA - INLAND WATERWAYS

| | | | | | |
|----|------|--|---|--|----|
| UN | 3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | | II |
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INTERNATIONAL MARITIME DANGEROUS GOODS

| | | | | | |
|----|------|--|---|----|------------------|
| UN | 3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | II | LIMITED QUANTITY |
|----|------|--|---|----|------------------|

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

| | | | | | |
|----|------|--|---|----|--|
| UN | 3264 | Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | II | |
|----|------|--|---|----|--|

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

| | | | | | |
|----|------|--|---|----|--|
| UN | 3264 | Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | II | |
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

| | | | | | |
|----|------|---|---|----|--|
| UN | 3264 | LIQUIDO CORROSIVO, ACIDO, INORGANICO, N.E.P. (PHOSPHORIC ACID, SULFURIC ACID) | 8 | II | |
|----|------|---|---|----|--|

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

| | |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------------|-----------|--------------------|-----------------------------|
| HYDROFLUORIC ACID | 7664-39-3 | 100 | 6250 |

SARA 311/312 Hazards : Acute Health Hazard

| | | |
|--------------------------------------|--|---------------------------|
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SARA 313 Component(s)

| | | |
|-------------------|-----------|--------|
| SULFURIC ACID | 7664-93-9 | 2.34 % |
| HYDROFLUORIC ACID | 7664-39-3 | 1.60 % |

Pennsylvania Right To Know

| | | |
|-------------------|-----------|-----------------|
| WATER | 7732-18-5 | 70.00 - 90.00 % |
| PHOSPHORIC ACID | 7664-38-2 | 10.00 - 20.00 % |
| SULFURIC ACID | 7664-93-9 | 1.00 - 5.00 % |
| HYDROFLUORIC ACID | 7664-39-3 | 1.00 - 5.00 % |

New Jersey Right To Know

| | | |
|-------------------|--------------|-----------------|
| WATER | 7732-18-5 | 70.00 - 90.00 % |
| PHOSPHORIC ACID | 7664-38-2 | 10.00 - 20.00 % |
| SULFURIC ACID | 7664-93-9 | 1.00 - 5.00 % |
| SURFACTANT | Not Assigned | 1.00 - 5.00 % |
| HYDROFLUORIC ACID | 7664-39-3 | 1.00 - 5.00 % |

California Prop 65

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

| | |
|---------------|-----------|
| SULFURIC ACID | 7664-93-9 |
|---------------|-----------|

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.
- AUSTR : On the inventory, or in compliance with the inventory
- ENCS : Not 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)

| | | |
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SECTION 16. OTHER INFORMATION

Further information

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| | | | | | | | |
|---|---|---------------|----------|---------------------|----------|------------------------|----------|
| NFPA: | HMIS III: | | | | | | |
| <p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p> | <table border="1"> <tr> <td>HEALTH</td> <td>3</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p> | HEALTH | 3 | FLAMMABILITY | 0 | PHYSICAL HAZARD | 0 |
| HEALTH | 3 | | | | | | |
| FLAMMABILITY | 0 | | | | | | |
| PHYSICAL HAZARD | 0 | | | | | | |

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

- H290 May be corrosive to metals.
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

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 :

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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