

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

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 | 1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263) |
| Product name | EAGLE ONE® ELITE WHEEL CLEANER LOW pH WHEEL CLEANER | |
| Product code | CBOOAE101-09-CP | |
| Product Use Description | No data | |

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, blue

DANGER! MAY BE HARMFUL IF SWALLOWED. CAUSES SEVERE BURNS OF THE EYES AND SKIN.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.

Ingestion

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), Kidney, Central nervous system, cardiovascular 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: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, discomfort in the chest, Headache, Difficulty in breathing, irregular heartbeat, lung edema (fluid buildup in the lung tissue), acute kidney failure (sudden slowing or stopping of urine production), kidney damage, coma

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: damage to tooth enamel, cardiovascular effects, kidney damage

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).

Reproductive hazard

Citric acid did not cause harmful effects on the developing fetus when given in the diet of laboratory animals, even at concentrations which were harmful to the pregnant animals. This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | CAS-No. | Concentration |
|----------------------|-----------|---------------|
| PHOSPHORIC ACID | 7664-38-2 | >=15-<20% |
| CITRIC ACID | 77-92-9 | >=1.5-<5% |
| OXALIC ACID | 144-62-7 | >=1.5-<5% |

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Ingestion

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. 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: Pulmonary edema may be delayed. 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.

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

Treatment: This product contains oxalic acid. Following ingestion, inactivate oxalate by giving calcium as a dilute solution of calcium lactate, lime water, finely pulverized chalk, plaster, and/or milk. Gastric lavage is controversial due to possible corrosion in the esophagus or stomach. Systemic effects may be due to formation of a complex between oxalic acid and calcium which is insoluble at physiological pH and can be deposited in the brain and renal tubules, causing nervous system disturbances and kidney damage. Resultant hypocalcemia may be responsible for the muscular and cardiovascular effects, although hypovolemic shock from gastroenteritis or hemorrhage may also cause cardiovascular collapse. Intravenous administration of calcium gluconate or calcium chloride may be required if hypocalcemia or hypocalcemic tetany occur.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

Oxides of phosphorus, carbon dioxide and carbon monoxide, Hydrocarbons, acid vapors, formic acid

Precautions for fire-fighting

Oxalic acid crystals are considered to be a combustible solid below 214 degrees F (101 degrees C). 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.

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.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

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

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

Other information

Comply with all applicable federal, state, and local regulations.

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

Store in closed containers in a dry, well-ventilated area. Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| PHOSPHORIC ACID | | 7664-38-2 |
|------------------------|-----------------------------------|---------------------|
| ACGIH | time weighted average | 1 mg/m ³ |
| ACGIH | Short term exposure limit | 3 mg/m ³ |
| NIOSH | Recommended exposure limit (REL): | 1 mg/m ³ |
| NIOSH | Short term exposure limit | 3 mg/m ³ |
| OSHA Z1 | Permissible exposure limit | 1 mg/m ³ |
| OXALIC ACID | | 144-62-7 |
| ACGIH | time weighted average | 1 mg/m ³ |
| ACGIH | Short term exposure limit | 2 mg/m ³ |
| NIOSH | Recommended exposure limit (REL): | 1 mg/m ³ |
| NIOSH | Short term exposure limit | 2 mg/m ³ |
| OSHA Z1 | Permissible exposure limit | 1 mg/m ³ |

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

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. Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant.

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 appropriate chemical impervious clothing and boots whenever there is potential for skin contact with product. Launder clothing before reuse. Maintain safety shower at all locations where skin contact could occur. Contact your local safety equipment supplier to assist the facility in determining proper selection of personal protective equipment for the applications/operations present at your facility. 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 | liquid |
| Form | no data available |
| Colour | blue |
| Odour | no data available |
| Boiling point/boiling range | no data available |
| Melting point/range | no data available |
| Sublimation point | no data available |
| pH | no data available |
| Flash point | not applicable |
| Ignition temperature | no data available |
| Evaporation rate | no data available |

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

| | |
|--|--|
| Lower explosion limit/Upper explosion limit | no data available |
| Particle size | no data available |
| Vapour pressure | no data available |
| Relative vapour density | no data available |
| Density | No data 9.16 lb/gal @ 60.00 °F / 15.56 °C |
| Bulk density | No data |
| Water solubility | no data available |
| Solubility | no data available |
| Partition coefficient: n-octanol/water | no data available |
| log Pow | no data available |
| Autoignition temperature | no data available |
| Viscosity, dynamic | no data available |
| Viscosity, kinematic | no data available |
| Solids in Solution | no data available |
| Decomposition temperature | no data available |
| Burning number | no data available |
| Dust explosion constant | no data available |
| Minimum ignition energy | no data available |

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

excessive heat

Incompatible products

Alkaline earth metals, carbonates, chlorites, Cyanides, Fluorine, furfuryl alcohol, metal nitrates, nitromethane, silver, strong bases, Strong oxidizing agents, strong reducing agents, Sulphides, sulfides, sulphites

Hazardous decomposition products

Oxides of phosphorus, carbon dioxide and carbon monoxide, Hydrocarbons, acid vapors, formic acid

Hazardous reactions

Product will not undergo hazardous polymerization.

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

Thermal decomposition
No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
PHOSPHORIC ACID

: LD 50 Rat: 1,530 mg/kg

CITRIC ACID

: LD 50 Mouse: 5,040 mg/kg

OXALIC ACID

: LD 50 Rat: 7,500 mg/kg

Acute inhalation toxicity
PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

Acute dermal toxicity

PHOSPHORIC ACID

: LD 50 Rabbit: 2,740 mg/kg

CITRIC ACID

: no data available

OXALIC ACID

: no data available

12. ECOLOGICAL INFORMATION

Biodegradability

PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

ASHLAND
SAFETY DATA SHEET

Page: 9
Revision Date: 07/28/2010
Print Date: 2/22/2011
MSDS Number: R0405401
Version: 3.0

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

Bioaccumulation
PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

Ecotoxicity effects

Toxicity to fish
PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

Toxicity to daphnia and other aquatic invertebrates.

PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

Toxicity to algae

PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

Toxicity to bacteria

PHOSPHORIC ACID

: no data available

CITRIC ACID

: no data available

OXALIC ACID

: no data available

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

Biochemical Oxygen Demand (BOD)

PHOSPHORIC ACID : no data available

CITRIC ACID : no data available

OXALIC ACID : no data available

Chemical Oxygen Demand (COD)

PHOSPHORIC ACID : no data available

CITRIC ACID : no data available

OXALIC ACID : no data available

Additional ecological information

PHOSPHORIC ACID : no data available

CITRIC ACID : no data available

OXALIC ACID : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

REGULATION

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

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

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

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

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

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

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

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

INTERNATIONAL MARITIME DANGEROUS GOODS

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

TRANSPORT CANADA - INLAND WATERWAYS

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

TRANSPORT CANADA - RAIL

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

TRANSPORT CANADA - ROAD

ASHLAND
SAFETY DATA SHEET

Page: 12
Revision Date: 07/28/2010
Print Date: 2/22/2011
MSDS Number: R0405401
Version: 3.0

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

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

U.S. DOT - INLAND WATERWAYS

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

U.S. DOT - RAIL

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

U.S. DOT - ROAD

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

*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

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

SARA Hazard Classification

Acute Health Hazard

New Jersey RTK Label Information

| | |
|-----------------|-----------|
| WATER | 7732-18-5 |
| PHOSPHORIC ACID | 7664-38-2 |
| CITRIC ACID | 77-92-9 |
| OXALIC ACID | 144-62-7 |

ASHLAND
SAFETY DATA SHEET

Page: 13
Revision Date: 07/28/2010
Print Date: 2/22/2011
MSDS Number: R0405401
Version: 3.0

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

SURFACTANT
AMMONIUM SALT

Pennsylvania RTK Label Information

| | |
|-----------------|-----------|
| WATER | 7732-18-5 |
| PHOSPHORIC ACID | 7664-38-2 |
| CITRIC ACID | 77-92-9 |
| OXALIC ACID | 144-62-7 |

Notification status

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

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302) 27230 lbs

Reportable quantity-Components

PHOSPHORIC ACID 7664-38-2 5000 lbs

| | HMIS | NFPA |
|------------------|------|------|
| Health | 3 | 3 |
| Flammability | 0 | 0 |
| Physical hazards | 0 | |
| Instability | | 0 |
| Specific Hazard | -- | -- |

16. OTHER INFORMATION

ASHLAND
SAFETY DATA SHEET

Page: 14
Revision Date: 07/28/2010
Print Date: 2/22/2011
MSDS Number: R0405401
Version: 3.0

EAGLE ONE® ELITE WHEEL CLEANER
LOW pH WHEEL CLEANER
CBOOAE101-09-CP

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).