

SDS AMCO 359

Section 1 Identification

Product: 359
Other means of identification: Clear, amber liquid with a faint characteristic odor
Recommended use and restrictions on use: Cooling water treatment. Not for use in drinking water.
Source: AMCO Inc.
P.O.Box 754
Chagrin Falls, OH 44022
Chemtrec (800) 424-9300
(440) 247-7533
Emergency phone:
Office phone:

Section 2 Hazard(s) Identification

Emergency overview: Clear amber liquid with a faint characteristic odor. Product is a potential skin sensitizer

Classification 29 CFR 1910.1200: Product is hazardous by OSHA criteria.

Skin sensitization Category 1 subcategory 1A

Signal word: Warning
Hazard statement(s): May cause an allergic skin reaction

No other hazard statements required
May cause mild irritation to skin or eyes following prolonged contact

Pictogram(s):

Exclamation mark
Skin sensitizer



Precautionary statements: Avoid breathing mist or spray.
Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Wear safety glasses with side shields.

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. No specific treatment identified.

If in eyes: Rinse with water for several minutes. Remove contact lenses, if present and easy to do.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.

Dispose of contents or container in accordance with local state and federal regulations.

Hazards not otherwise classified: None known.
Ingredients with unknown toxicity: None known.
Potential environmental effects: None known.

Section 3 Composition/Information on Ingredients

Hazardous Ingredient(s)	Common name	CAS#	% by Wt*
Hydroxyphosphono acetic acid, trisodium salt	HPA, sodium salt	78620-07-2	1-5

* The exact percent by weight of the ingredients in this formulation is proprietary.

Section 4 First-Aid Measures

Eyes:	If in eyes: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation occurs, get medical attention.
Skin:	If on skin: Wash with plenty of water. If skin irritation or rash occurs: get medical attention. Wash contaminated clothing before reuse. No specific treatment identified.
Inhalation:	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: get medical attention.
Ingestion:	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.
Acute symptoms:	May cause an allergic skin reaction, such as, irritation or rash. May cause mild irritation to skin or eyes following prolonged contact.
Delayed effects:	None known.
Immediate or special treatment requirements:	No additional treatment indicated.

Section 5 Fire Fighting Measures

Suitable extinguishing media:	Product is not flammable. Use media appropriate for surrounding fire.
Specific hazards:	Product is a skin sensitizer. Product may cause mild skin or eye irritation upon prolonged contact. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Under fire conditions, some ingredient residues may burn after loss of water. Thermal decomposition under fire conditions may produce corrosive aerosols, metal oxide fumes, oxides of phosphorus, phosphine, oxides of carbon, oxides of nitrogen, and ammonia.
Special PPE & precautions:	Wear self-contained breathing apparatus and full turn-out gear. Approach fire from upwind direction. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve irritating or toxic gas under extreme heat.

Section 6 Accidental Release Measures

Personal precautions, PPE, & emergency procedures:	Wear safety glasses with side shields and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots. Product may be slippery underfoot. If spill escapes to sanitary sewer, notify local public works authorities. If spill escapes to the environment, notify state and federal EPA and, if appropriate, the Coast Guard.
Containment & clean-up:	Contain and collect spills with commercial absorbents. Unused product or spill cleanup residues are not RCRA hazardous waste. Consult local authorities for appropriate waste disposal options in your location.

Section 7 Handling and Storage

Precautions for safe handling:	Open container slowly until pressure is relieved. Avoid spillage. Clean up small spills and drips promptly. Protect product from contamination. Avoid contact between this product and other chemicals. The recommended disposal for rinse waters from empty units is discharge to the treated system.
Conditions for safe storage:	Store product in closed container in well ventilated, secure area. Protect containers against physical damage. Protect label. Empty containers retain product residues and all label hazards are still present until container is thoroughly cleaned.

Section 8 Exposure Controls/Personal Protection

Exposure limits for the formulated product are not established. Exposure limits for the hazardous ingredient(s) are also not established:

Ingredient	Source & Parameter	Exposure Limit
Hydroxyphosphono acetic acid, trisodium salt	ACGIH TWA	None
	OSHA PEL	None

NOTE: OSHA - Occupational Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; NIOSH – National Institute for Occupational Safety and Health; PEL – Permissible Exposure Limit; TWA – Time Weighted Average; TLV – Threshold Limit Value; REL – Recommended Exposure Limit; STEL – Short Term Exposure Limit; IDLH - Immediately Dangerous to Life or Health.

Engineering Controls:	General exhaust ventilation is adequate. Employ work practices and product transfer practices that avoid spills, drips, or contact with incompatible material.
Individual Protection/PPE:	Wear safety glasses with side shields and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots.

Section 9 Physical and Chemical Properties

Appearance (physical state, color, etc.):	Clear, amber
Odor:	Faint characteristic odor
Odor threshold:	Not known
pH:	10.0 – 11.0
Melting point/freezing point:	<32° F
Initial boiling point and boiling range:	>212° F
Flash point:	None, not flammable
Evaporation rate:	Similar to water
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	None, not flammable
Vapor pressure:	Not known, similar to water
Vapor density:	Not known, similar to water
Relative density:	Specific gravity, 1.069
Solubility(ies):	Completely miscible in water
Partition coefficient: n-octanol/water:	Not known
Auto-ignition temperature:	None, not flammable
Decomposition temperature:	Not known, > 212° F
Viscosity:	Not known

Section 10 Stability and Reactivity

Reactivity:	Product may react with water reactive substances, concentrated acid, or concentrated base.
Chemical stability:	Stable at ambient temperatures and pressures.
Possibility of hazardous reactions:	Hazardous reactions are not likely. Polymerization will not occur.
Conditions to avoid:	Contact with water reactive substances, concentrated acid, or concentrated base.
Incompatible materials:	Water reactive substances, concentrated acid or concentrated base.
Hazardous decomposition products:	Phosphine, oxides of phosphorus, oxides of carbon, oxides of nitrogen, ammonia

Section 11 Toxicological Information

Likely routes of exposure:	Skin or eye contact.
Symptoms related to physical, chem., and tox. characteristics:	Product is a skin sensitizer. Prolonged contact may irritate eyes and skin.
Delayed effects:	None known.
Immediate effects:	May cause an allergic skin reaction, such as, irritation or rash. May cause mild irritation to skin or eyes following prolonged contact.
Chronic effects:	None known.
Numerical measures of toxicity:	No toxicology available on the formulated product. Toxicology data for product ingredient(s):
Hydroxyphosphono acetic acid	Oral rat LD50, 2,754 mg/kg (data for hydroxyphosphono acetic acid, not sodium salt)
Carcinogenicity:	None of the product ingredients are listed as carcinogens by IARC, NTP, or OSHA.

Section 12 Ecological Information

Ecotoxicity:	Significant contamination of small bodies of surface water or localized areas at the point of a spill may alter ambient conditions beyond tolerable levels for aquatic organisms.
Persistence and degradability:	Neutralized hydroxyphosphono acetic acid is expected to be biodegradable, but no half life data was located.
Bioaccumulative potential:	Product ingredients do not bioaccumulate.
Mobility in soil:	Not known.
Other adverse effects:	None known.

Section 13 Disposal Considerations

Product is consumed during recommended use. Flush container residues to the treated system. If product is not consumed in use, material is not RCRA hazardous waste. Dispose of contents or container in accordance with local, state, and federal regulations.

Section 14 Transport Information

UN number:	Not DOT regulated
UN proper shipping name:	Not DOT regulated
Transport hazard class(es)	None
Packing group:	None
Environmental hazards:	Does not contain ingredient(s) listed as marine pollutant.
Transport in bulk:	Not DOT regulated
Special precautions:	Not DOT regulated

Section 15 Regulatory Information

US EPA EPCRA SARA, sec. 312:	Immediate & delayed hazard, skin sensitizer
US EPA EPCRA SARA, sec. 313:	Not listed
US EPA CERCLA	Not listed
US EPA TSCA:	All ingredients listed or exempt

Section 16 Other Information

NFPA Hazard Ranking

Health	Fire	Reactivity	Special
1	1	0	None

HMIS Hazard Ranking

Health	Fire	Reactivity	PPE
1	0	0	b or X (defined below)

b – safety glasses and gloves

X – consult supervisor

References

1. Manufacturers' SDS on file for raw materials used in this product.
2. 29 CFR 1910.1200. Current OSHA eCFR edition as of September 2014.
3. ANSI Z400.1/Z129.1-2010. Hazard Evaluation and Safety Data Sheet and Labeling Preparation. American National Standards Institute, Inc., New York, NY. 2010.
4. The Globally Harmonized system of Classification and Labeling of Chemicals. (Purple Book) United Nations. 2009.
5. ACGIH. Threshold Limit Values and Biological Exposures Indices. 2014.
6. 49 CFR 172.101, Hazardous Materials Table. Current DOT eCFR edition as of September 2014.
7. EPA List of Lists. EPA 550-B-10-001. July 2011.

Date of Preparation

November 10, 2014

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