

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code: IBAINC-159
Product Name: FC-310
Company Name: IBA Inc.
27 Providence Rd.
Millbury, MA 01527
Phone Number: +1 (508)865-6911
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1B
Acute Toxicity: Oral, Category 4
Serious Eye Damage/Eye Irritation, Category 1
Corrosive To Metals, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.
H302 - Harmful if swallowed.
H290 - May be corrosive to metals.

GHS Precautionary Phrases: P102 - Keep out of reach of children.
P103 - Read label before use.
P262 - Do not get in eyes, on skin, or on clothing.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
Wear rubber gloves, chemical goggles, face shield and rubber apron.
Take any precaution to avoid mixing with chlorinated products.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.
P332+313 - If skin irritation occurs, get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms, get immediate medical attention.
P305 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.
P315 - Get immediate medical advice/attention.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P315 - Get immediate medical advice/attention.

GHS Storage and Disposal Phrases: P405 - Store locked up.
P501 - Dispose of contents/container to ...
P406 - Store in corrosive resistant/... container with a resistant inner liner.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.



Inhalation: Harmful if inhaled. Causes chemical burns to the respiratory tract. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin Contact: Causes skin burns. Harmful if absorbed through the skin.

Eye Contact: Causes serious eye damage. Causes severe eye burns. May cause permanent corneal opacification.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7664-38-2	Phosphoric acid	<40.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid immediately.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Wash with plenty of water. Get medical aid immediately.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

In Case of Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: Phosphine, oxides of phosphorus, oxides of sulfur, carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.



6. ACCIDENTAL RELEASE MEASURES

- Protective Precautions, Protective Equipment and Emergency Procedures:** Use proper personal protective equipment as indicated in Section 8.
- Environmental Precautions:** Observe all federal, state, and local environmental regulations.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid breathing vapors, mist or gas.

7. HANDLING AND STORAGE

- Precautions To Be Taken in Handling:** Use with adequate ventilation. Keep container tightly closed. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Avoid breathing dust, vapor, mist, or gas. Wash thoroughly after handling.
- Precautions To Be Taken in Storing:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container closed when not in use.
- Other Precautions:** Handle in accordance with good industrial hygiene and safety practice.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No data.

Respiratory Equipment (Specify Type): A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection: Wear chemical splash goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical States:** [] Gas [X] Liquid [] Solid
- Appearance and Odor:** Clear. Red. Liquid.
- pH:** No data.
- Melting Point:** No data.
- Boiling Point:** No data.
- Flash Pt:** No data.
- Evaporation Rate:** No data.
- Flammability (solid, gas):** No data available.
- Explosive Limits:** LEL: No data. UEL: No data.
- Vapor Pressure (vs. Air or mm Hg):** No data.
- Vapor Density (vs. Air = 1):** No data.



Specific Gravity (Water = 1): 1.120 - 1.130
Solubility in Water: No data.
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: No data.
Decomposition Temperature: No data.
Viscosity: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Extremes of temperature and direct sunlight. Incompatible materials.
Incompatibility - Materials To Avoid: Strong oxidizing agents, chlorine, Strong reducing agents, Strong bases, Metals.
Hazardous Decomposition or Byproducts: Phosphine, oxides of phosphorus, irritating and toxic fumes and gases.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.

Irritation or Corrosion: CAS# 7664-38-2: Phosphoric acid: Acute toxicity, LD50, Oral, Rat, 1530. MG/KG.
Acute toxicity, LC50, Inhalation, Rat, > 850.0 MG/M3, 1 H.
Acute toxicity, LD50, Skin, Species: Rabbit, 2740. MG/KG.
Other Studies: CAS# 7664-38-2:
Acute toxicity, LD50, Oral, Rat, 1530 mg/kg
Acute toxicity, LD50, Skin, Rabbit, 2740 mg/kg
Acute toxicity, LC50, Inhalation, Rat, 850.0 mg/m3, 1 H.
Other Studies: CAS# 7664-38-2:
Standard Draize Test, Eyes, Species: Rabbit, 119.0 mg

Carcinogenicity/Other Information: ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
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.

SAFETY DATA SHEET

FC-310



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

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.

Results of PBT and vPvB assessment: Other Studies: CAS# 7664-38-2:
Not reported. Rainbow Trout (*Oncorhynchus mykiss*), fingerling, 5.190%, 27 W

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.
US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
Observe all federal, state, and local environmental regulations.
Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Phosphoric Acid Solution.
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN1805 **Packing Group:** III



15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7664-38-2	Phosphoric acid	No	Yes NA	No

CAS #	Hazardous Components (Chemical Name)
7664-38-2	Phosphoric acid

Other US EPA or State Lists

CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No;
MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No;
NY Part 597: Yes: HS; PA HSL: Yes - E



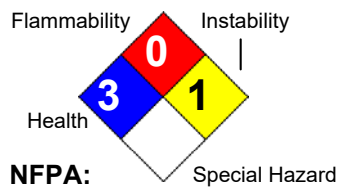
SAFETY DATA SHEET

FC-310

16. OTHER INFORMATION

Revision Date: 12/06/2021

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While IBA Inc. believes the statements set forth herein are accurate as of the date hereof, IBA Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.