
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	ISOPHOS™
Product Use Description:	Waterborne dilute solution of phosphoric acid that reduces and helps remove rust and prepares a surface to which paint or coatings will readily adhere.
Manufacturer:	Edge Adhesives, Inc. 1950 O'Day Road Pearland, Texas 77581
Telephone:	1-281-485-4440

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids:	Category 1
Serious eye damage:	Category 1
Skin sensitizations:	Category 1
Specific target organ toxicity:	Category 1

GHS Label Elements

Hazard Pictograms:



Signal Word:	Danger
Hazard Statements:	May be corrosive to metals. May cause skin burns and eye damage.

Precautionary Statements

Prevention:	Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.
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Avoid breathing fumes/gas/mist/vapors or spray.
Contaminated work clothing must not be allowed out of workplace.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with plenty of water/shower. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

IF SPILLED: Absorb spillage to prevent material damage. Dispose of any materials following disposal section below.

Specific treatment (see supplemental first-aid instructions on this label). Wash contaminated clothing before reuse.

Disposal:

Store locked up. Store in corrosive-resistant stainless steel container with a resistant inner liner. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazards Not Classified:

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of:

Water	94 wt%
Phosphoric acid (CAS-No: 7664-38-2, EC-No 231-633-2, Index-No 015-011-00-6)	6 wt%



4. FIRST-AID MEASURES

General Advice	Consult a physician. Show this safety data sheet to doctor in attendance. Move out of dangerous area.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Treat symptomatically. Consult a physician.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed. Consult a physician.
Skin Contact:	Remove contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water. Consult a physician. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing before reuse.
Eye Contact:	Any material that contacts the eye should be washed out immediately with water for at least 15 minutes. If easy to do, remove contact lenses. Continue rinsing eyes during transport to hospital. Consult a physician.

Most important symptoms/effects, acute and delayed

Symptoms: See Section 11.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: CO₂, dry chemical, foam, water spray, water fog.

Unsuitable extinguishing media: Not determined.

Specific hazards arising from the chemical: See Section 10 for additional information.



Oxides of phosphorous. Container may rupture on heating.

Special protective equipment and precautions for firefighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Wear full protective fire-gear including self-containing breathing apparatus operated in the positive pressure mode with full face-piece, coat, pants, gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.

Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert absorbent material. Keep in suitable closed containers for disposal. Wash area with soap and water. Spilled liquids are slippery. Use care to avoid falls.

Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewer/drains. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing fumes/gas/mist/ vapors/spray. Avoid contact with eyes, skin, and clothing.



Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate Personal Protective Equipment. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse.

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

When using, do not eat, drink or smoke.

Maximum Handling Temperature:

Not determined.

Conditions for Safe Storage, Including Any Incompatibilities:

Store away from incompatible materials. See Section 10 for incompatible materials. Keep from freezing. Do not store in open, unlabeled or mislabeled containers.

Maximum Storage Temperature

Not determined.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m ³	USA. ACGIH Threshold Limit Value (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Skin irritation		
		TWA	1 mg/m ³	USA. ACGIH Threshold Limit Value (TLV)
		Upper Respiratory Tract irritation Eye irritation Skin irritation		
		STEL	3 mg/m ³	USA. ACGIH Threshold Limit Value (TLV)
		Upper Respiratory Tract irritation Eye irritation Skin irritation		
		STEL	3 mg/m ³	USA. ACGIH Threshold Limit Value (TLV)
		Upper Respiratory Tract irritation Eye irritation Skin irritation		
		TWA	1 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1 mg/m ³	USA. NIOSH Recommended Exposure Limits
		ST	3 mg/m ³	USA. NIOSH Recommended Exposure Limits



Appropriate Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day. Use material in well-ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General Information:

Use personal protective equipment as required.

Eye/Face Protection:

Tightly fitting safety goggles or face-shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards, such as NIOSH (US) or EN 166(EU).

Skin Protection

Hand Protection:

Use good industrial hygiene practices to avoid skin contact. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Suitable gloves can be recommended by the glove supplier.

Other:

Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

Respiratory Protection:

Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, a respirator is not usually required. Use appropriate respiratory protection if exposure to mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.



Hygiene Measures: Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

Control of Environmental Exposure: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state:	Liquid
Form:	Liquid
Color:	Clear colorless
Odor:	Slight odor
Odor threshold:	No data available.
pH:	<2
Freezing point:	Approximately 0 °C
Boiling point:	212 °F
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	No data available.
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.05
Solubility(ies)	
Solubility in water:	Infinite solubility in water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	Low water-like viscosity

10. STABILITY AND REACTIVITY

Reactivity: No data available.



Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Do not freeze.
Incompatible Materials:	Strong bases and powdered metals.
Hazardous Decompositions Products:	No data available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	Prolonged contact may cause irritation and/or redness.
Eye Contact:	No data available.

Information on toxicological effects

Acute Toxicity

Oral: Product	No data available.
Dermal: Product	No data available.
Inhalation: Product	No data available.
Skin Corrosion/Irritation: Product	No data available.
Serious Eye Damage/Eye Irritation: Product	No data available.
Respiratory Sensitization:	No data available.
Skin Sensitization:	No data available.
Specific Target Organ Toxicity – Single Exposure:	No data available.



Aspiration Hazard:	No data available.
Other Effects:	LD50, Oral, Rat: (Phosphoric Acid) 1530 mg/kg, behavioral, kidney, bladder, hair effects noted. LD50, Dermal, Rat: 2740 mg/kg (Phosphoric Acid), behavioral effects noted.
Chronic Effects – Carcinogenicity:	No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
U.S. National Toxicology Program (NTP) Report on Carcinogens:	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by NTP.
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by OSHA.
American Conference of Governmental Industrial Hygienists (ACGIH)	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by ACGIH
Germ Cell Mutagenicity:	No data available.
Reproductive Toxicity:	No data available.
Specific Target Organ Toxicity - Repeated Exposure:	No data available.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without government approval/permits. Discharge into the environment must be avoided.



Ecotoxicity	
Fish	Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.
Aquatic Invertebrates	Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.
Toxicity to Aquatic Plants	Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.
Toxicity to Soil Dwelling Organisms	No data available.
Sediment Toxicity	No data available.
Toxicity to microorganisms	No data available.
Persistence and Degradability	
Biodegradation	No data available.
Bioaccumulative Potential	
Bioconcentration Factor (BCF)	No data available.
Mobility:	No data available.
Other Adverse Effects:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Treatment, storage, transportation and disposal must be in accordance with all applicable local, state and federal regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
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14. TRANSPORT INFORMATION

DOT (US)

UN number: 1805 Class: 8 Packing Group: III
Proper shipping name: Phosphoric acid solution

Poison Inhalation Hazard: No

IMDG

UN number: 1805 Class: 8 Packing Group: III EMS-No: F-A, S-B
Proper shipping name: PHOSPHORIC ACID SOLUTION

IATA

UN number: 1805 Class: 8 Packing Group: III
Proper shipping name: Phosphoric acid, solution

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

U.S. State Regulations:

MASSACHUSETTS RIGHT-TO-KNOW COMPONENTS

Phosphoric acid CAS-No. 7664-38-2

PENNSYLVANIA RIGHT-TO-KNOW COMPONENTS

CAS-No.
7732-18-5
Revision Date

Phosphoric acid 7664-38-2 1993-04-24

NEW JERSEY RIGHT-TO-KNOW COMPONENTS

CAS-No.
 7732-18-5
 Revision Date
 Phosphoric acid 7664-38-2 1993-04-24

CALIFORNIA PROPOSITION 65 COMPONENTS

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

HMIS Hazard ID

Health	3
Flammability	0
Physical Hazards	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date: 05/31/2015
Version #: 1.0

Source of information: Internal company data, suppliers and other publically available resources.

Further Information: Contact supplier (see Section 1)

Disclaimer: As the conditions or methods of use are beyond our control, we do not assume



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SDS number: 0000005
Revision Date: 05/31/2015

any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.