

## **SAFETY DATA SHEET**

**SDS NUMBER:** M 118 **DATE:** 01/26/21

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## (a) PRODUCT NAME IDENTIFIER USED ON LABEL:

Isooctyl acid phosphate

## (b) OTHER MEANS OF IDENTIFICATION:

**Synonyms:** Diisooctyl Phospshate (diester); Phosphoric acid, Diisooctyl Ester; Phosphoric acid,

Monoisooctyl ester

**Chemical formula:**  $C_8H_{19}O_4P + C_{16}H_{35}O_4P$ 

**CAS Numbers:** See section 3

Other: Reaction mass of isooctyl acid phosphate and diisooctyl acid phosphate.

#### (c) RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS

Curing catalyst, oil additive, pigment dispersion agent and others. For industrial use only.

## (d) NAME, ADDRESS AND TELEPHONE NUMBER OF MANUFACTURER

Manufacturer's IsleChem, LLC Name and 2801 Long Road

**Address:** Grand Island, NY 14072 **Telephone**: 716-773-8100

## (e) EMERGENCY PHONE NUMBER

**24-Hour emergency telephone:** 1-800-424-9300

**To request an SDS:** 1-716-773-8100

**Customer service:** 1-716-773-8100

 IsleChem, LLC
 Page 2 of 10

 SDS NO: M 118
 01/26/21

**PRODUCT NAME:** Isooctyl acid phosphate

## 2. HAZARDS IDENTIFICATION

### (a) CLASSIFICATION OF CHEMICAL IN ACCORDANCE WITH 29 CFR 1910(d)

Health: Skin corrosion, category 1C

Physical: none

## (b) SYMBOLS, SIGNAL WORD, HAZARD AND PRECAUTIONARY STATEMENTS IN ACCORDANCE WITH 29 CFR 1910.1200(d)

**Symbols (Pictograms)** 



## Signal Words, Hazard and Precautionary Statements:

**Danger.** Causes severe skin burns and eye damage.

Do not breathe fumes/mist/vapor/spray. Wear protective gloves, clothing, eye, and face protection. Wash thoroughly after handling. Wash contaminated clothing before reuse.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Store locked up.

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

#### (c) HAZARDS NOT OTHERWISE CLASSIFIED

None

#### (d) MIXTURE INGREDIENT(S) THAT ARE NOT CLASSIFIED FOR TOXICITY

None at greater than 1%.

**IsleChem, LLC SDS NO:** M 118

Page 3 of 10
01/26/21

PRODUCT NAME: Isooctyl acid phosphate

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

(a) Chemical Name	(b) Common Name &	(c) CAS	(d) Concentration
	Synonyms	Number	Weight %
Phosphoric acid,	Diisooctyl phosphate	27215-10-7	55-67%
Diisooctyl Ester	(diester)		
Phosphoric acid,	Isooctyl phosphate (mono	26403-12-3	32-41%
monoisoooctyl ester	ester)		
Phosphoric acid	Orthophosphoric acid	7664-38-2	0-5%
Isooctanol	Isooctyl alcohol	104-76-7	4-6%

## 4. FIRST AID MEASURES

## (a) DESCRIPTION OF FIRST AID MEASURES BY ROUTES OF ENTRY

**EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

**SKIN:** Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

## (b) MOST IMPORTANT SYMPTOMS AND EFFECTS

#### **Potential health effects:**

**Routes of entry:** Ingestion, inhalation, skin, eyes.

Target organs: None known.

**Irritancy:** Severely irritating to eyes.

**Sensitizing capability:** None known.

**Reproductive effects:** None known.

**IsleChem, LLC SDS NO:** M 118

Page 4 of 10
01/26/21

PRODUCT NAME: Isooctyl acid phosphate

**Cancer information:** his product does not contain any substances at > 0.1 weight % that are considered by OSHA, NTP, IARC or AGCIH to be "probable" or "suspected" carcinogens.

This product contains chemicals known to the State of California to cause cancer.

## **Short term exposure (acute):**

**Inhalation:** Irritating to mucous membranes.

**Eyes:** Liquid is a severe eye irritant and can cause burns.

**Skin:** May cause burns.

**Ingestion:** May cause burns to gastrointestinal tract. May be harmful by ingestion.

#### **Repeated exposure (chronic)**

This product contains chemicals known to the State of California to cause cancer.

**Synergistic materials:** None known.

**Medical conditions aggravated by exposure:** None known.

# (c) INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

As indicated above

## 5. FIRE FIGHTING MEASURES

#### (a) SUITABLE EXTINGUISHING MEDIA

Dry chemical, alcohol foam, carbon dioxide, water mist.

#### (b) SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Not a flammable liquid but will burn under fire conditions. Oxides of carbon and phosphorus form as combustion products.

## (c) SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep unauthorized personnel removed and upwind. Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

(note: see section 9 for flash point, LEL, UEL, and auto-ignition temperature)

## 6. ACCIDENTAL RELEASE MEASURES

## (a) PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Follow protective measures provided in section 2 and section 8.

 IsleChem, LLC
 Page 5 of 10

 SDS NO: M 118
 01/26/21

PRODUCT NAME: Isooctyl acid phosphate

Contain spill with dike to prevent entry into sewers or waterways. Spills or releases should be reported, if required, to the appropriate local, state and federal agencies.

#### (b) METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Absorb spill using suitable absorbent. Sweep or vacuum spills and place in containers for recovery or disposal. Dispose of clean-up materials per section 13.

## 7. HANDLING AND STORAGE

#### (a) PRECAUTIONS FOR SAFE HANDLING

Avoid breathing mist or vapor, use with adequate ventilation. Wear NIOSH/MSHA approved respiratory protection if there is potential for exposure above the exposure limits.

## (b) CONDITIONS FOR SAFE STORAGE, INCOMPATIBILITIES

Keep container tightly closed and properly labeled. Store in a cool, dry and locked area. This material is acidic and will attack steel. Keep away from open flames.

Incompatibilities: See section 10

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### (a) EXPOSURE LIMITS

Component	Weight Percent	OSHA	ACGIH TLV
Phosphoric acid,	55-67%	Not established	Not established
Diisooctyl Ester			
Phosphoric acid,	32-41%	Not established	Not established
monisoooctyl ester			
	0-5%	PEL: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Phosphoric acid			STEL: 3 mg/m <sup>3</sup>
Isooctanol	4-6%	Not established	Not established

#### (b) ENGINEERING CONTROLS

Since this material may be corrosive to skin and mucous membranes, general room ventilation plus local exhaust at points of emission should be used to maintain levels of airborne contaminants as low as feasibly possible.

## (c) PERSONAL PROTECTION

 IsleChem, LLC
 Page 6 of 10

 SDS NO: M 118
 01/26/21

**PRODUCT NAME:** Isooctyl acid phosphate

**Respiratory:** Wear a NIOSH/MSHA approved respirator following manufacturer's recommendations, where airborne contaminants may occur.

**Eye/face:** Wear safety glasses with side shields or chemical safety goggles and a face shield as appropriate (ANSI Z87.1).

**Skin:** Contact should be prevented by use of appropriate personal protective clothing. Wear chemical resistant gloves such as rubber, neoprene or vinyl.

**Other:** Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- (a) Appearance and Odor: Clear colorless liquid slightly thicker than water, slight isooctyl alcohol odor.
- **(b) Odor Threshold:** Not available
- (c) pH: 2 @ 10 g/L
- (d) Specific Gravity (H2O = 1): 0.99-1.01
- (e) Melting Point/Freezing Point: Not available
- **(f) Boiling Point @ 760 mm Hg/Boiling Point Range:** Not applicable. Decomposition starts at 257° F
- (g) Flash Point:  $> 200^{\circ}$  C
- (h) Evaporation rate: Not available
- (I) Flammability: Not a flammable liquid but will burn in fire conditions
- (j)Lower explosive limit (LEL)/Upper explosive limit (UEL): Not available / Not available
- (k) Vapor Pressure: Not available(l) Vapor density: Not available(m) Relative density: Not available
- (m) Relative density: Not available(n) Solubility in Water: insoluble(o) Partition coefficient: Not available
- (p) Auto ignition temperature: Not available
   (q) Decomposition temperature: 257° F
- (r) Viscosity: Not available

## 10. STABILITY AND REACTIVITY

#### a) REACTIVITY

Reacts with strong oxidizers and alkalis.

 IsleChem, LLC
 Page 7 of 10

 SDS NO: M 118
 01/26/21

**PRODUCT NAME:** Isooctyl acid phosphate

## b) CHEMICAL STABILITY

Stable

#### c) POSSIBILITY OF HAZARDOUS REACTION

Hazardous polymerization will not occur.

## d) CONDITIONS TO AVOID

See 10 a, c and e.

#### e) INCOMPATIBLE MATERIALS

See 10 a and c.

## f) HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide & carbon dioxide; Phosphorus oxides

## 11. TOXICOLOGICAL INFORMATION

#### a) INFORMATION ON LIKELY ROUTES OF EXPOSURE

See section 4.

## b) SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

See sections 2 and 4.

#### c) DELAYED AND IMMEDIATE EFFECTS

See section 4.

#### d) NUMERICAL MEASURES OF TOXICITY

ACUTE ORAL TOXICITY: LD50: 1800 mg/kg (rat)

ACUTE RESPIRATORY TOXICITY: LC50 > 20 mg/L/hr. (rat) ACUTE DERMAL TOXICITY: LC50 > 500 mg/kg (rabbit)

#### e) CARCINOGENICITY

This product does not contain any substances at > 0.1 weight % that are considered by OSHA, NTP, IARC or AGCIH to be "probable" or "suspected" carcinogens.

This product contains chemicals known to the State of California to cause cancer.

## 12. ECOLOGICAL INFORMATION

#### a) ECOTOXICITY

No data available

**IsleChem, LLC SDS NO:** M 118

Page 8 of 10
01/26/21

PRODUCT NAME: Isooctyl acid phosphate

## b) PERSISTANCE AND DEGRADABILITY

No data available

#### c) BIOACCUMULATIVE POTENTIAL

No data available

#### d) MOBILITY IN SOIL

No data available

#### e) OTHER ADVERSE EFFECTS

This product contains phosphoric acid which is a SARA section 313 Water Priority Chemical.

## 13. DISPOSAL CONSIDERATIONS

Dispose of all waste, contaminated containers and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.

## 14. TRANSPORTATION INFORMATION

#### a) UN NUMBER:

UN3265

## b) UN PROPER SHIPPING NAME:

Corrosive Liquid Acidic Organic NOS (Diisooctyl acid phosphate)

#### c) TRANSPORT HAZARD CLASSES

8 (Corrosive)

## d) PACKING GROUP

Ш

## e) ENVIRONMENTAL HAZARDS

Not a marine pollutant

#### e) TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL

None

#### f) SPECIAL PRECAUTIONS

DOT Hazardous substance: RQ 5000 lbs. (phosphoric acid)

PRODUCT NAME: Isooctyl acid phosphate

## 15. REGULATORY INFORMATION

**U.S. FEDERAL REGULATIONS:** OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

This product contains phosphoric acid which has a CERCLA RQ of 5000 pounds.

This product contains phosphoric acid which is a SARA section 313 Water Priority Chemical.

To aid our customers in complying with regulatory requirements, SARA Title III Hazard Categories for this product are indicated below. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40.CFR.370. Please consult those regulations for details.

#### **SARA/TITLE III HAZARD CATEGORIES:**

Immediate (Acute) Health:	YES	Reactive Hazard:	NO
Delayed (Chronic) Health:	NO	Sudden Release of Pressure:	NO
Fire Hazard:	NO		

**TSCA:** All components contained in this substance are listed on the TSCA inventory.

#### **HMIS HAZARD RATINGS:**

HEALTH HAZARD: 3 FIRE HAZARD: 1 REACTIVITY: 0

**STATE REGULATIONS:** Consult local laws for applicability.

**INTERNATIONAL REGULATIONS:** Consult the regulations of the importing country.

## 16. OTHER INFORMATION

## **SDS LEGEND:**

ACGIH = American Conference of Governmental Industrial Hygienists

ANSI = American National Standards Institute

CAS = Chemical Abstracts Service Registry Number

CEILING = Ceiling Limit (Duration is for 15 minutes, unless otherwise noted.)

**IsleChem, LLC SDS NO:** M 118

Page 10 of 10
01/26/21

**PRODUCT NAME:** Isooctyl acid phosphate

CEL = Corporate Exposure Limit

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

CFR = Code of Federal Regulations (USA)

DOT = Department of Transportation

LEL = Lower explosive limit

MARPOL = International Convention for the Prevention of Pollution from Ships

MSHA = Mine Safety and health Administration

NTP = National Toxicological Program

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

GHS = Global Harmonized System

IARC = International Agency for Research on Cancer

PEL = Permissible Exposure Limit (OSHA)

PPM = parts per million

RQ = Reportable Quantity per 40 CFR 355

SARA = Superfund Amendments and Re-authorization Act

SDS = Safety Data Sheet

STEL = Short Term Exposure Limit (Duration is for 15 minutes, unless otherwise noted.)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average (8 hr.)

UEL = Upper Explosive Limit

\* = See section 3 Hazards Identification - Repeated Exposure (Chronic)

**IMPORTANT:** The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, OR OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, STABILITY OR OTHERWISE.

This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws, rules, regulations or ordinances.

MOST RECENT VERSION OF THIS SDS: 01/26/21