



SAFETY DATA SHEET

SDS NUMBER: M 100

DATE: 5/21/15

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(a) PRODUCT NAME IDENTIFIER USED ON LABEL:

Butyl Acid Phosphate

(b) OTHER MEANS OF IDENTIFICATION:

Synonyms: butyl acid phosphate, dibutyl acid phosphate, dibutyl phosphate

Chemical formula: $C_4H_{11}O_4P$, $C_8H_{19}O_4P$

CAS Numbers: See section 3

Other: Reaction mass of butyl acid phosphate and dibutyl acid phosphate.

(c) RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS

Curing Catalyst, oil additive, pigment dispersion agent. 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

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 breath 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 victim 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%.

3. COMPOSITION/INFORMATION ON INGREDIENTS

(a) Chemical Name	(b) Common Name & Synonyms	(c) CAS Number	(d) Concentration Weight %
Phosphoric acid, dibutyl ester	Dibutyl acid phosphate	107-66-4	40-60%
Phosphoric acid, monobutyl ester	Butyl acid phosphate	1623-15-0	40-60%
Phosphoric acid	Orthophosphoric acid	7664-38-2	1-8%
Butanol	Butyl Alcohol	73-36-3	3-5%
Tributyl phosphate	NA	126-73-8	0.5-1.5%

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. 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.

Cancer information: This product does not contain any substances at > 0.1% 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.

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.

Incompatibilities: See section 10

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(a) EXPOSURE LIMITS

<i>Component</i>	<i>Weight Percent</i>	<i>OSHA</i>	<i>ACGIH TLV</i>
Phosphoric acid, dibutyl ester	40-60	PEL: 1 ppm	TWA: 5 mg/m ³ Sk
Phosphoric acid, monobutyl ester	40-60	Not established	Not established
Phosphoric acid	1-8	PEL: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³
Butanol	3-5	PEL: 100 ppm	TWA: 20 ppm
Tributyl phosphate	0.5-1.55	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

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 to slightly yellow liquid slightly thicker than water with a characteristic odor.

(b) **Odor Threshold:** Not available

(c) **pH:** 2 @ 10 g/L

(d) **Specific Gravity (H₂O = 1):** 1.12

(e) **Melting Point/Freezing Point:** < - 60⁰ C

(f) **Boiling Point @ 760 mm Hg/Boiling Point Range:** Not applicable. Decomposition starts at 124⁰ C

(g) **Flash Point:** Not available

(h) **Evaporation rate:** Not available

(I) **Flammability:** Not a flammable liquid but will burn under 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

(n) **Solubility in Water:** insoluble

(o) **Partition coefficient:** Not available

(p) **Auto ignition temperature:** Not available

(q) **Decomposition temperature:** Decomposition starts at 124⁰ C

(r) **Viscosity:** Not available

10. STABILITY AND REACTIVITY

a) REACTIVITY

Reacts with strong oxidizers and alkalis.

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: 3.2 g/kg (rat)

e) CARCINOGENICITY

This product does not contain any substances at > 0.1% 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

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 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:

UN1718

b) UN PROPER SHIPPING NAME:

Butyl Acid Phosphate

c) TRANSPORT HAZARD CLASSES

8 (Corrosive)

d) PACKING GROUP

III

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)

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 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.)
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)

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MOST RECENT VERSION OF THIS SDS: 5/21/15