## **MATERIAL SAFETY DATA SHEET**

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Product name: JACAAB PHOSPHOLAN PS-220

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** JACAAB-PHOSPHOLAN PS-220

**Chemical name:** Alkyl ether phosphate

Repacker: JACAAB LLC

4155 Manchester Avenue St. Louis, MO 63110, USA

**Emergency telephone** JACAAB LLC 314-652-5400

**number:** CHEMTREC (24 hours) 800-424-9300

For MSDS, Product Safety, or regulatory inquiries, call:

Customer Service: 800-906-9977

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS#	CONCENTRATION
68585-36-4	98.0 %
7664-38-2	2.0 %
123-91-1	< 0.1 %
	68585-36-4 7664-38-2

## 3. HAZARDS IDENTIFICATION

#### **APPEARANCE**

Physical state Liquid
Color Yellow
Odor Mild

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#### **EMERGENCY OVERVIEW**

MAY BE HARMFUL IF SWALLOWED.

SEE SECTION 7 OF THE MSDS FOR INFORMATION ON TRACE 1,4-DIOXANE CONTENT.

#### POTENTIAL HEALTH EFFECTS

#### **Swallowing**

**Acute effects** 

May be harmful if swallowed.

#### Skin absorption

**Acute effects** 

Harmful effects are not expected from short periods of contact.

#### **Inhalation**

**Acute effects** 

Short-term harmful health effects are not expected from vapor generated at ambient temperature.

#### **Skin contact**

**Acute effects** 

Prolonged contact may cause irritation.

#### **Eye contact**

**Acute effects** 

May cause irritation.

#### POTENTIAL ENVIRONMENTAL EFFECTS

This product is expected to be moderately toxic to aquatic organisms.

## 4. FIRST AID MEASURES

#### Swallowing

Do not induce vomiting. Obtain medical attention immediately.

#### Skir

Wash skin with soap and water.

#### Inhalation

Remove to fresh air. Give artificial respiration if not breathing. Obtain medical attention.

#### Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes.

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## 5. FIRE-FIGHTING MEASURES

Flash point: > 94 °C

#### Special protective equipment for firefighters

Use self-contained breathing apparatus when fighting fires in enclosed areas.

#### **Extinguishing media**

Suitable: Extinguish with:

water fogdry chemical

- CO2

- alcohol resistant foam

- water spray

Unsuitable: None.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Wear suitable protective equipment.

#### **Environmental precautions**

Avoid runoff to sewers or waterways. May be harmful to aquatic life. Product is soluble in water.

#### Methods for cleaning up

Absorb on inert material such as sand, earth, vermiculite.

Contain or minimize dispersion and collect if possible.

If not possible disperse residue to reduce aquatic harm.

Report per regulatory requirements.

## 7. HANDLING AND STORAGE

#### **HANDLING**

## **Handling precautions**

Do not get in eyes, on skin, on clothing. Keep drums tightly closed to prevent contamination. Wear recommended personal protection equipment. Never use pressure to empty drums.

#### Other precautions

This product contains trace amounts of 1,4-dioxane, a condition which creates the potential for human exposure. If this product is handled according to the recommendations in this MSDS, the presence of these trace amounts is not expected to result in any short term or long term hazard.

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#### **STORAGE**

#### Storage requirements

Store and use with adequate ventilation. Store at ambient temperature.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### PERSONAL PROTECTION

#### **Respiratory protection**

If personnel exposure exceeds the exposure limits, select appropriate protective equipment in accordance with NIOSH recommendations.

#### Hand protection / protective gloves

Resistant gloves

#### Eye protection

Safety glasses.

#### **Industrial hygiene measures**

Remove contaminated clothing and clean it.

#### **ENGINEERING CONTROLS**

#### Ventilation

General (mechanical) room ventilation is expected to be satisfactory for normal handling.

#### **EXPOSURE LIMITS**

Component	Type	<u>Value</u>	<u>Remark</u>
Phosphoric acid	TWA, OSHA	1.0 mg/m3	
	STEL, OSHA	3.0 mg/m3	
	TWA ACCILI	1.0 2	
	TWA, ACGIH	1.0 mg/m3	
	STEL, ACGIH	3.0 mg/m3	
	STEE, ACGIT	3.0 mg/m3	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **APPEARANCE**

Physical state

Liquid

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#### Product name: JACAAB PHOSPHOLAN PS-220

Color Yellow Odor Mild

#### OTHER PROPERTIES

**Boiling point** Decomposes

Melting point Not determined

**pH** 1.5 - 2.5

Concentration:

30 g/l

**Density** 1.02 g/cm3 at 20 °C

Vapor pressure Negligible

Vapor density (air=1) Non Volatile

Solubility in water Soluble

Flash point > 94 °C

Method: Pensky-Martens closed cup ASTM D 93

**Percent volatiles** 0 %(m)

## 10. STABILITY AND REACTIVITY

Stability: Stable.

#### **Stability - Conditions to avoid**

Stable under normal conditions.

#### **Incompatible materials**

Strong oxidizing agents.

## Hazardous combustion products

Carbon monoxide.
Carbon dioxide.

Oxides of phosphorous.

Hazardous polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

#### **CARCINOGENICITY**



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2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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**Product name: PHOSPHOLAN PS-220** 

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name CAS# Max weight %

Phosphoric acid RQ 5000 pounds 7664-38-2 2.00

for phosphoric

acid

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are: None.

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name CAS# Max weight %

Phosphoric acid 7664-38-2

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name CAS# New Jersey TS Number

Phosphoric acid 7664-38-2 Alcohols, C10-14, ethoxylated, phosphate 68585-36-4

**EPA Hazard Categories (SARA 311, 312):** None

#### **CHEMICAL INVENTORY**

<u>United States:</u> The ingredients of this product are on the TSCA inventory.

### 16. OTHER INFORMATION

#### RECOMMENDED USES AND RESTRICTIONS

Please consult the product and/or application information bulletins for this product.

#### **HMIS RATING**

			DDI.	
Health:	Flammability: I	Reactivity: 0		
			1 1 1 1	

#### **LEGEND**

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard



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