

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/01/2012 Revision date: 03/06/2015 Supersedes: 01/22/2015

Version: 1.3

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Trade name : PRAYPHOS™ TCP 108 FG

PRAYPHOS™ TCP 308 FG PRAYPHOS™ TCP 308 SP

Chemical name : Pentacalcium hydroxide tri(orthophosphate)

CAS No : 12167-74-7 / 1306-06-5

Product code : PINC-178
Formula : Ca5(OH)(PO4)3

Synonyms : E341, / Calcium orthophosphate

REACH registration No. : 01-2119490075-38-0007

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Food/feedstuff additives

## 1.3. Details of the supplier of the safety data sheet

#### PRAYON INC.

1610 Marvin Griffin Road

Augusta GA 30906 United States of America SDS Responsible: customerservice@prayoninc.com

## 1.4. Emergency telephone number

In case of emergency: CHEMTREC 1-800-424-9300

Emergency phone number: IN THE EVENT OF A CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC: 1-800-424-9300. Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or U.S. Virgin Islands. For calls originating elsewhere dial 703-527-3887 (collect calls accepted). Nationwide Poison control center: 1-800-222-1222

For other countries, see section 16.6

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not classified

### 2.2. Label elements

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

# SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : PRAYPHOS™ TCP 108 FG

PRAYPHOS™ TCP 308 FG PRAYPHOS™ TCP 308 SP

CAS No : 12167-74-7 / 1306-06-5

Name	Product identifier	%	GHS-US classification
pentacalcium hydroxide tri(orthophosphate)	(CAS No) 12167-74-7	100	Not classified

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

03/06/2015 EN (English) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air. If persistent breathing troubles, immediately seek medical attention.

First-aid measures after skin contact : Rinse immediately with plenty of water. Remove contaminated clothing and shoes. If on skin,

take off contaminated clothing.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. If feeling unwell,

immediately seek medical attention.

First-aid measures after ingestion : Do not induce vomiting. If feeling unwell, immediately seek medical attention. If swallowed,

rinse mouth with water (only if the person is conscious).

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : No specific effects and/or symptoms have been reported or are known.

### 4.3. Indication of any immediate medical attention and special treatment needed

See Heading 4.1.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. CO2. Powders. Foam.

Unsuitable extinguishing media : None.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

Reactivity : On exposure to high temperature, may decompose, releasing toxic gases. Stable under normal

conditions (Handling and storage).

#### 5.3. Advice for firefighters

Protection during firefighting : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Dust and/or fine particles, minimize inhalation exposure. Personal protective equipment (see

section (s) :8.2).

### 6.1.1. For non-emergency personnel

No additional information available

### 6.1.2. For emergency responders

No additional information available

## 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Avoid dust production. Rinse with plenty of

water

Other information : See section 8 and 13 for more information.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust. Avoid contact with skin, eyes and clothing. Always wash your hands

immediately after handling this product, and once again before leaving the workplace. Remove contaminated clothing and shoes. Wash clothing before re-using. Packagings, even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty

packagings as if they were full.

Hygiene measures : When using do not eat, drink or smoke.

03/06/2015 EN (English) 2/7

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep packaging closed when not in use. Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG PRAYPHOS™ TCP 308 SP (		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable) - 3 mg/m³ (respirable dust)
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³ (inhalable) - 5 mg/m³ (respirable dust)

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations. Emergency eye wash fountains

and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Wear chemical protective gloves.

Eye protection : Wear safety glasses with side shields.

Skin and body protection : Protective clothing (with elasticated cuffs and closed neck).

Respiratory protection : Use respiratory protection mask according to NIOSH/MSHA. Respiratory protection programs

must comply with 29 C.F.R. 1910.134.

Environmental exposure controls : Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

Colour : white

Odour : odourless

Odour threshold : Not applicable

pH : 6 - 8 (1% solution)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 1670 °C

Freezing point No data available Boiling point : Not applicable Flash point : Not flammable : Not flammable Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) Not flammable Vapour pressure : Not applicable Relative vapour density at 20 °C : Not applicable Relative density : No data available

Density : 0,3 g/cm³

Solubility : Material nearly insoluble in water.

Water: 0,002 g/100ml

Log Pow: Not applicableLog Kow: Not applicableViscosity, kinematic: Not applicableViscosity, dynamic: Not applicable

Explosive properties : Product is not explosive.

Oxidising properties : Not flammable.

03/06/2015 EN (English) 3/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosive limits : Not applicable

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

On exposure to high temperature, may decompose, releasing toxic gases. Stable under normal conditions (Handling and storage).

### 10.2. Chemical stability

Stable under normal conditions (Handling and storage).

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

None.

## 10.5. Incompatible materials

None.

# 10.6. Hazardous decomposition products

None.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG PRAYPHOS™ TCP 308 SP (\f)12167-74-7 /	1306-06-5
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

Skin corrosion/irritation : Not classified

pH: 6 - 8 (1% solution)

Serious eye damage/irritation : Not classified

pH: 6 - 8 (1% solution )

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : No data available.

# 12.2. Persistence and degradability

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG

PRAYPHOS™ TCP 308 SP (12167-74-7 / 1306-06-5)

Persistence and degradability No data available.

03/06/2015 EN (English) 4/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 12.3. Bioaccumulative potential

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG PRAYPHOS™ TCP 308 SP (12167-74-7 / 1306-06-5)	
Log Pow	Not applicable
Log Kow	Not applicable
Bioaccumulative potential	No data available.

### 12.4. Mobility in soil

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG PRAYPHOS™ TCP 308 SP (12167-74-7 / 130	6-06-5)
Ecology - soil	No data available.

#### 12.5. Other adverse effects

Other adverse effects : No data available.

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Other information : Phosphates are plant nutrient and as such may contribute to the growth of phytoplanctons in

water.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods : Comply with local regulations for disposal.

Waste disposal recommendations : This material when discarded in pure form is not a hazardous waste as defined by 40 CFR 261,

the Resource Conservation and Recovery Act (RCRA). Dry materials may be landfilled or recycled in accordance with local, state, and federal regulations. If materials have become contaminated with other substances, dispose of in accordance with local, state, and federal

regulations.

Additional information : Empty packaging can have residues or dusts and are subject to proper waste disposal, as

above.

# **SECTION 14: Transport information**

In accordance with DOT Not regulated for transport

**Additional information** 

Other information : No supplementary information available.

## **ADR**

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

## **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

PRAYPHOS™ TCP 108 FG	
PRAYPHOS™ TCP 308 FG	
PRAYPHOS™ TCP 308 SP <b>(12167-74-7 / 1306-06-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not applicable
SARA Section 313 - Emission Reporting	Not applicable

03/06/2015 EN (English) 5/7

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 15.2. International regulations

## **CANADA**

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG

PRAYPHOS™ TCP 308 SP (12167-74-7 / 1306-06-5)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

### **EU-Regulations**

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

## 15.2.2. National regulations

PRAYPHOS™ TCP 108 FG PRAYPHOS™ TCP 308 FG

PRAYPHOS™ TCP 308 SP (12167-74-7 / 1306-06-5)

CERCLA reportable quantities: not applicable

SARA Title III: Not applicable 29CFR1910.1000:Not listed

KOREA N° 211

### 15.3. US State regulations

## **SECTION 16: Other information**

Revision date : 03/06/2015 Data sources : SDS.

03/06/2015 EN (English) 6/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations and acronyms

: ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF : Assessment factor BCF : Bioconcentration factor

Bw: Body weight

CAS: Chemical Abstracts Service
CLP: Classification, labelling, packaging
CSP: Chemical Safety Papert

CSR: Chemical Safety Report
DMEL: Derived maximum effect level
DNEL: Derivative No effect Level
EC: European Community

ELV : Emission limit values EN: European Norm

EUH: European Hazard Statement EWC: European Waste catalogue

IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50 : Median lethal dose

NOAEL: No-observed-adverse-effect-level NOEC: No observed effect concentration NOEL: No observed effect level OEL: Operator exposure level

PBT: Persistent, bioaccumulative, Toxic PEC: Predicted effect level

PNEC: Predicted No effect Concentration

REACH: Registration, evaluation and autorisation of chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

STEL: Short Term Exposure Limit TWA: Time weighted average

vPvB: Very persistent, very bioaccumulative.

Training advice : None.

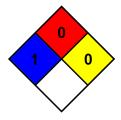
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



### SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.DISCLAIMER OF LIABILITY The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable

03/06/2015 EN (English) 7/7