



# CARFOSEL™ 408

## Safety Data Sheet

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

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Version: 2.1

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

#### 1.1. Product identifier

Product form : Substance  
Trade name : CARFOSEL™ 408  
Chemical name : Pentasodium Triphosphate  
CAS No : 7758-29-4  
Product code : PINC-077  
Formula : Na<sub>5</sub>P<sub>3</sub>O<sub>10</sub>  
Synonyms : E451, Sodium tripolyphosphate  
REACH registration No. : 01-2119430450-54-0003

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

Use of the substance/mixture : Food/feedstuff additives  
Products for care of the teeth and the mouth.

#### 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 : CARFOSEL™ 408  
CAS No : 7758-29-4

Name	Product identifier	%	GHS-US classification
Sodium tripolyphosphate	(CAS No) 7758-29-4	> 92	Not classified

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air. If you feel unwell, seek medical advice.  
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.

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First-aid measures after ingestion : Do not induce vomiting. Immediately rinse mouth with water. If feeling unwell, immediately seek medical attention.

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

### 5.3. Advice for firefighters

Firefighting instructions : Use water stream to cool containers.  
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 : Avoid dust production. 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 surface waters.

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

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

### 6.4. Reference to other sections

See section 8 and 13 for more information.

## 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes.

### 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

CARFOSEL™ 408 (7758-29-4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable) - 3 mg/m <sup>3</sup> (respirable dust)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (inhalable) - 5 mg/m <sup>3</sup> (respirable dust)

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### 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 CFR 1910.134.
Environmental exposure controls	: Avoid release to the environment.
Consumer exposure controls	: None TLV known.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Hygroscopic granular.
Colour	: white
Odour	: odourless
Odour threshold	: Not applicable
pH	: 9.5 - 10.2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 622 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not flammable
Auto-ignition temperature	: Not flammable
Decomposition temperature	: 622 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: Pellet: 43-52 lb/cu
Solubility	: Water: 14 g/100g
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

Fire. Moisture. Strong oxidizers.

### 10.5. Incompatible materials

No additional information available

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### 10.6. Hazardous decomposition products

see section(s) :5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

CARFOSEL™ 408 ( \f )7758-29-4	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	4640 mg/kg
LC50 inhalation rat (mg/l)	390 mg/m³

Skin corrosion/irritation : Not classified  
(Skin:Not irritating (rabbit-OECD 404))  
pH: 9.5 - 10.2

Serious eye damage/irritation : Not classified  
(rabbit,Similar to:OECD 405)  
pH: 9.5 - 10.2

Respiratory or skin sensitisation : Not classified  
(Did not cause sensitisation. souris, OECD 429)

Germ cell mutagenicity : Not classified  
(Not mutagenic (AMES Test))

Carcinogenicity : Not classified  
(Similar to: OECD guideline 453)

Reproductive toxicity : Not classified  
(141 mg/kg bw/day. (OECD 414 method))

Specific target organ toxicity (single exposure) : Not classified

CARFOSEL™ 408 (7758-29-4)	
NOAEL (oral, rat)	225 mg/kg bodyweight

Specific target organ toxicity (repeated exposure) : Not classified

CARFOSEL™ 408 (7758-29-4)	
NOAEL (oral, rat, 90 days)	225 mg/kg bodyweight/day Similar to:OECD 412

Aspiration hazard : Not classified

Other information : Mutagenicity. In vitro:Negative(OECD guideline 471) . In vivo: Negative (rat, Similar to:OECD 475).

## SECTION 12: Ecological information

### 12.1. Toxicity

CARFOSEL™ 408 (7758-29-4)	
LC50 fishes 1	> 1850 mg/l (Afnort 90 303)
EC50 Daphnia 1	> 100 mg/l (48h - Daphnia magna - guideline 40 CFR 797.1330)
EC50 other aquatic organisms 1	ACTIVATED SLUDGE:Phosphates are necessary for the survival of the sewage microorganism.
ErC50 (algae)	160 mg/l Desmodesmus subspicatus ISO/TC147/SC5/WG5 N84
LOEC (chronic)	5 mg/l (96h - fish, OECD 212)

### 12.2. Persistence and degradability

CARFOSEL™ 408 (7758-29-4)	
Persistence and degradability	Not relevant. (inorganic substance).

### 12.3. Bioaccumulative potential

CARFOSEL™ 408 (7758-29-4)	
Bioaccumulative potential	STPP is hydrolised in orthophosphates in aqueous and biological systems. Orthophosphates are essential nutrients.

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### 12.4. Mobility in soil

#### CARFOSEL™ 408 (7758-29-4)

Ecology - soil	No data available.
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### 12.5. Other adverse effects

Other adverse effects : No.

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 phytoplanktons in water. Water / Earth: quickly hydrolysed in easily degradable substances.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261.

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

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

#### CARFOSEL™ 408 (7758-29-4)

Not listed on the United States SARA Section 313

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### CARFOSEL™ 408 (7758-29-4)

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

### 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

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### 15.2.2. National regulations

#### CARFOSEL™ 408 (7758-29-4)

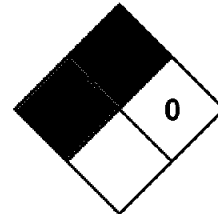
Not Listed on SARA Section 302 (Specific toxic chemical listings)  
CERCLA reportable quantities : not applicable  
SARA Title III: Not applicable  
RTECS/NIOSH number:YK 4570000/primary irritant  
ANSI/NSF Std. 60 – potable water systems : Certified  
Hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200), Appendix A : Irritant

### 15.3. US State regulations

## SECTION 16: Other information

Revision date : 03/06/2015  
Data sources : Reach dossier.  
Training advice : None.  
Other information : Emergency numbers CANUTEC (Canadian Transportation): (613) 996-6666.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.  
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)

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