



# PRAYPHOS™ MSP FG/FG GR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 24/04/2012

Revision date: 08/04/2021

Supersedes version of: 11/07/2017

Version: 2.0

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

#### 1.1. Product identifier

Product form	: Substance
Trade name	: PRAYPHOS™ MSP FG/FG GR
Chemical name	: Sodium dihydrogen orthophosphate
EC-No.	: 231-449-2
CAS-No.	: 7558-80-7
REACH registration No	: 01-2119489796-13-0002
Product code	: EUR-060
Formula	: NaH <sub>2</sub> PO <sub>4</sub>
Synonyms	: Monosodium phosphate, Monosodium orthophosphate, E339
Product group	: phosphates

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture	: Food/feedstuff additives
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##### 1.2.2. Uses advised against

Title	Use descriptors	Reason
PRAYPHOS™ MSP FG/FG GR		None

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

PRAYON S.A.  
Rue Joseph Wauters, 144  
B-4480 Engis - Belgique-Belgium  
T +32 (0)4 273 92 11 - F +32 (0)4 273 96 35  
[Reachcustomer@prayon.com](mailto:Reachcustomer@prayon.com) - [www.prayon.be](http://www.prayon.be)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Ireland	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only),
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

#### 2.2. Label elements

This substance must not be labelled according to Regulation (EC) n° 1272/2008 (CLP).

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

Labelling not applicable

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### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : None.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : PRAYPHOS™ MSP FG/FG GR  
CAS-No. : 7558-80-7  
EC-No. : 231-449-2

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium dihydrogen monophosphate	(CAS-No.) 7558-80-7 (EC-No.) 231-449-2 (REACH-no) 01-2119489796-13-0002	≥ 98	Not classified

Full text of H-statements: see section 16

### 3.2. Mixtures

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 feeling unwell, immediately seek medical attention.  
First-aid measures after skin contact : Immediately rinse with plenty of water. Remove contaminated clothing and shoes. 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 : Rinse mouth thoroughly with water. Do not induce vomiting. If feeling unwell, immediately seek medical attention.

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

Symptoms/effects : 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. Carbon dioxide (CO<sub>2</sub>). Foam. Powders.  
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.

### 5.3. Advice for firefighters

Protection during firefighting : Tight protective clothing required. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.  
Other information : Not flammable.

## SECTION 6: Accidental release measures

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

General measures : Avoid dust production. Personal protective equipment (see section (s) :8.2). In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

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### 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.

### 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 : Avoid dust production. 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 : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep container closed when not in use. Store in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

##### DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	13,07 mg/m³
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##### DNEL/DMEL (General population)

Long-term - systemic effects, oral	70 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	5,6 mg/m³
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Additional information : None TLV known.

### 8.2. Exposure controls

#### Appropriate engineering controls:

Good ventilation of the workplace required. Monitor the atmosphere at regular intervals.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Safety glasses with side shields

#### Skin and body protection:

Protective clothing (with elasticated cuffs and closed neck)

#### Respiratory protection:

Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material (Type FFP2 in accordance with EN 140 or 149)

#### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Hygroscopic powder/Hygroscopic granular.
Molecular mass	: 120 g/mol
Colour	: white.
Odour	: odourless.
Odour threshold	: Not applicable
pH	: 4,3 – 4,7 @ 1% Solution
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 450 °C (EU method A.1)
Freezing point	: Not applicable - Solid
Boiling point	: Study scientifically not justified ; Melting point> 300°C
Flash point	: Technical impossibility to obtain the data - (inorganic substance)
Auto-ignition temperature	: Study scientifically not justified
Decomposition temperature	: No data available
Flammability (solid, gas)	: Study scientifically not justified - Product is stable
Vapour pressure	: Study scientifically not justified ; Melting point> 300°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.20 - 1.40 g/cm3 (FG GR) / 0.65 - 1.03 g/cm3 (FG)
Solubility	: Water: 85 g/100g water @ 20°C
Partition coefficient n-octanol/water (Log Pow)	: Not applicable.(inorganic substance)
Partition coefficient n-octanol/water (Log Kow)	: Not applicable.(inorganic substance)
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Non oxidizing. There are no chemical groups associated with oxidizing properties.
Explosive limits	: Not applicable - Not explosive

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No.

#### 10.4. Conditions to avoid

Moisture.

#### 10.5. Incompatible materials

No data available.

#### 10.6. Hazardous decomposition products

None.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

PRAYPHOS™ MSP FG/FG GR (7558-80-7)	
LD50 oral rat	> 2000 mg/kg rat, OECD 420,E-U method B.1 bis
LD50 dermal rat	> 2000 mg/kg rat, OECD 402
LC50 Inhalation - Rat	> 0,83 mg/l rat, EPA OPP 81-3

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Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 4,3 – 4,7 @ 1% Solution
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 4,3 – 4,7 @ 1% Solution
Respiratory or skin sensitisation	: Not classified. Skin. Did not cause sensitisation. mouse, OECD 429 (No data available)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Fertility: No data available. Developmental toxicity: NOAEL (370 mg/kg bw/day - subchronic; rat)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified (No reference available)

### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

NOAEL (subchronic, oral, animal/male, 90 days)	322,88 mg/kg bodyweight Dog
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Aspiration hazard	: Not classified
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### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

Viscosity, kinematic	Not applicable
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water	: This product does not present any particular risk for the environment.
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### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

LC50 - Fish [1]	> 100 mg/l (96) Oncorhynchus Mykiss, OECD 203
LC50 - Other aquatic organisms [2]	> 1000 mg/l (3h - ACTIVATED SLUDGE, OECD 209)
EC50 Daphnia 1	> 100 mg/l (48 - Daphnia magna, OECD 202)
ErC50 (algae)	> 100 mg/l (72)
NOEC (acute)	1000 mg/l (3h - ACTIVATED SLUDGE, OECD 209)
NOEC chronic algae	> 100 mg/l (72 - Desmodesmus subspicatus, OECD 201)

### 12.2. Persistence and degradability

### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

Persistence and degradability	Not relevant. (inorganic substance).
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### 12.3. Bioaccumulative potential

### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

Partition coefficient n-octanol/water (Log Pow)	Not applicable. (inorganic substance)
Partition coefficient n-octanol/water (Log Kow)	Not applicable. (inorganic substance)
Bioaccumulative potential	Low bioaccumulation potential.

### 12.4. Mobility in soil

### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

Mobility in soil	No data available
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### 12.5. Results of PBT and vPvB assessment

### PRAYPHOS™ MSP FG/FG GR (7558-80-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### Component

Sodium dihydrogen monophosphate (7558-80-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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### 12.6. Other adverse effects

Additional information	: Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Comply with local regulations for disposal.
Additional information	: Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.
Ecology - waste materials	: See the European waste catalogue.

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### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

##### ADN

Transport hazard class(es) (ADN) : Not applicable

##### RID

Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

No data available

##### - Transport by sea

No data available

##### - Air transport

No data available

##### - Inland waterway transport

Carriage prohibited (ADN)	: No
Not subject to ADN	: No

##### - Rail transport

Carriage prohibited (RID)	: No
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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

PRAYPHOS™ MSP FG/FG GR is not on the REACH Candidate List

PRAYPHOS™ MSP FG/FG GR is not on the REACH Annex XIV List

Other information, restriction and prohibition regulations : Not required.

##### 15.1.2. National regulations

Ensure all national/local regulations are observed

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

Indication of changes:

	Supersedes	Modified	
	Revision date	Modified	
	Reproductive toxicity - comment	Modified	
8.1	Long-term - systemic effects, oral	Added	
8.1	Long-term - systemic effects, inhalation	Modified	
8.1	Long-term - systemic effects, inhalation	Modified	
8.2	Appropriate engineering controls	Modified	
9.1	pH	Modified	
9.1	Partition coefficient n-octanol/water (Log Kow)	Added	
9.1	Partition coefficient n-octanol/water (Log Pow)	Added	
9.1	Upper explosive limit (UEL)	Added	
9.1	Lower explosive limit (LEL)	Added	
9.1	Relative vapour density at 20 °C	Added	
9.1	Molecular mass	Added	
9.1	Boiling point	Added	
9.1	Appearance	Added	
9.1	Density	Added	
9.1	Freezing point	Added	
9.1	Flash point	Modified	
9.1	Vapour pressure	Modified	
9.1	Flammability (solid, gas)	Modified	
9.1	Auto-ignition temperature	Modified	
9.1	Oxidising properties	Modified	
9.1	Explosive properties	Modified	
9.1	Physical state	Modified	
9.1	Solubility in water	Modified	
9.1	Melting point	Modified	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	

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11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
12.1	LC50 - Other aquatic organisms [2]	Modified	
12.3	Partition coefficient n-octanol/water (Log Kow)	Added	
12.3	Partition coefficient n-octanol/water (Log Pow)	Added	

Training advice : None.

### SDS EU (REACH Annex II) (Prayon)

*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.*  
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