

SAFETY DATA SHEET

according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended



Sodium dihydrogen orthophosphate monohydrate

Creation date 01st February 2024

Revision date

Version

1

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

Product identifier

Chemical name

Sodium dihydrogen orthophosphate monohydrate

CAS number

Sodium dihydrogen orthophosphate monohydrate

EC (EINECS) number

10049-21-5

Registration number

231-449-2

01-2119489796-13-0000

Recommended use

Industrial chemicals

Substance uses advised

against ---

Details of the supplier of the safety data sheet

Distributor

Name or trade name

Macco Organiques, s.r.o.

Address

Zahradní 1938/46c, Bruntál 1, 792 01

Czech Republic

Identification number (CRN)

26819210

VAT Reg No

CZ26819210

Phone

+420 555 530 300

E-mail

macco@macco.cz

Emergency telephone number

CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

This chemical **is not considered hazardous** by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Most serious adverse physico-chemical effects

Not specified.

Most serious adverse effects on human health and the environment

Not specified.

Label elements

none required

Hazard not otherwise classified (HNOC)

Non identified

SECTION 3: Composition/information on ingredients

Identification numbers	Substance name	Content in % weight	Classification according to 29CFR 1910.1200	Note
CAS: 10049-21-5 EC: 231-449-2 Registration number: 01-2119489796-13-0000	substance main component Sodium dihydrogen orthophosphate monohydrate	100	not classified as dangerous	

SAFETY DATA SHEET



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SECTION 4: First aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In the event of unconsciousness, do not provide food by mouth.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical

Skin contact

Remove contaminated clothes.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Depending on the situation, call medical rescue service or ensure medical treatment.

Ingestion

Rinse out the mouth with clean water. In the event of issues, find medical help.

Most important symptoms and effects, both acute and delayed

Inhalation

Not expected.

Skin contact

Not expected.

Eye contact

Not expected.

Ingestion

Not expected.

Notes to Physician

Symptomatic treatment.

SECTION 5: Firefighting measures

Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8. Avoid dust formation.

Environmental precautions

Prevent contamination of the soil and entering surface or ground water. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

Reference to other sections

See the Section 7, 8 and 13.

SAFETY DATA SHEET



according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended

Sodium dihydrogen orthophosphate monohydrate

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SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Do not eat, drink or smoke when using this product. Prevent contact with skin and eyes. Do not inhale dust.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Follow the usual measures intended for health protection at work and especially for good ventilation. Provide showers and eye wash possibility. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

When handling in long-term or repeatedly, use protective gloves.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.

SECTION 9: Physical and chemical properties

Appearance

Physical state

solid, crystalline, powder

Colour

white

Odour

without fragrance

pH

4.5 (5% solution at 20 °C)

Melting point/freezing point

data not available

Boiling point or initial boiling point and boiling range

data not available

Flash point

not applicable

Evaporation rate

not applicable

Flammability

non-flammable

Upper and Lower explosion limit

not applicable

Vapour pressure

not applicable

Vapour density

not applicable

Relative density

1.2

Solubility in water

easily dissolvable in cold water

Partition coefficient n-octanol/water (log value)

data not available

Auto-ignition temperature

not applicable

Decomposition temperature

data not available

Kinematic viscosity

not applicable

SAFETY DATA SHEET



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SECTION 10: Stability and reactivity

Reactivity

The substance is non-flammable.

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

Unknown.

Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

Incompatible materials

Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

Sodium dihydrogen orthophosphate monohydrate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 420	>2000 mg/kg bw	96 hours	Rat	F
Inhalation (dust/mist)	LC ₅₀	EPA OPP 81-3	>0.83 mg/l of air	4 hours	Rat	F/M
Dermal	LD ₅₀	EPA OPPTS 870.1200	>2000 mg/kg	24 hours	Rat	F/M

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404	4 hours	Rabbit

Serious eye damage/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.
IARC - not listed; NTP - not listed; ACGIH - not listed; OSHA - not listed; Mexico - not listed

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

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Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

Endocrine disruptor information

The substance does not have endocrine disrupting properties.

SECTION 12: Ecological information

Ecotoxicity

Acute toxicity

Based on available data the classification criteria are not met.

Sodium dihydrogen orthophosphate monohydrate					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Scenedesmus subspicatus)	Fresh water
EC ₅₀		1000 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Activated sludge

Persistence and degradability

not available

Bioaccumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects

Not available.

SECTION 13: Disposal considerations

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

SECTION 14: Transport information

UN number or ID number

not subject to transport regulations

UN proper shipping name

not relevant

Transport hazard class(es)

not relevant

Packing group

not relevant

Environmental hazards

not relevant

Special precautions for user

Reference in the Sections 4 to 8.

Maritime transport in bulk according to IMO instruments

not relevant

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SECTION 15: Regulatory information

United States of America Inventory

TSCA*

not listed (Sodium dihydrogen orthophosphate CAS nr. 7558-80-7: Listed)

TSCA* Inventory notification - Active-Inactive

not listed (Sodium dihydrogen orthophosphate CAS nr. 7558-80-7: Active)

TSCA* - EPA Regulatory Flags

not listed (Sodium dihydrogen orthophosphate CAS nr. 7558-80-7: Not listed)

*TSCA: US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):

N

DOT Marine Pollutant

N

DOT Severe Marine Pollutant

N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

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

OECD HPV

not applicable (Sodium dihydrogen orthophosphate, CAS nr. 7558-80-7: Listed)

Persistent Organic Pollutant

not applicable (Sodium dihydrogen orthophosphate, CAS nr. 7558-80-7: not applicable)

Ozone Depletion Potential

not applicable (Sodium dihydrogen orthophosphate, CAS nr. 7558-80-7: not applicable)

Restriction of Hazardous Substances (RoHS)

not applicable (Sodium dihydrogen orthophosphate, CAS nr. 7558-80-7: not applicable)

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

not applicable (Sodium dihydrogen orthophosphate, CAS nr. 7558-80-7: not applicable)

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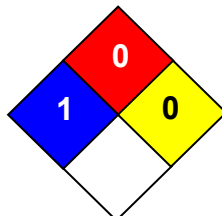
Version

1

SECTION 16: Other information

NFPA (National Fire Protection Association)

Health	1
Flammability	0
Reactivity	0
Special Hazard	None



4: Extreme, 3: High, 2: Moderate, 1: Slight, 0: Insignificant; OX: Oxidiser, W: Water Reactives, SA: Simple Asphyxiants

Competent person responsible for the safety data sheet

Name Petr Ševčík
E-mail petr.sevcik@macco.cz

Creation Date 01-Feb-2024
Revision Date ---
Revision Summary ---

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

End of SDS