

CANON OPTRON INC.

SDS Number: EH07

Product Name: PHILICFINE HP-1

SAFETY DATA SHEET

rev. 6.5 Date of Issue 2016/4/26

Revised Date 2018/6/6

SECTION 1 Chemicals and company identification

Chemical identifier	PHILICFINE HP-1
SDS number	EH07
Company name	CANON OPTRON INC.
Address	1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan
Section name	Internal Control Promotion Div.
Telephone number	+81-296-21-3700 (Sales Dept.)
Fax number	+81-296-21-3770
Emergency telephone number	+81-296-21-3700 (Sales Dept.)
Recommended uses and restrictions on use	Vacuum deposition material

SECTION 2 Hazards identification

GHS Classification (A classification by JIS Z 7252 "classification methods such as chemical substances based on GHS")

No data available

Label element

Pictogram (Symbol)	No data available
Signal word	No data available
Hazard statement	No data available
Precautionary statement	
【Safety measures】	Obtain special instructions before use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapours/spray.
【First-aid measures】	If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call poison center or doctor/physician
【Storage】	Store in a well-ventilated place, keep container tightly closed. Store locked up.
【Disposal】	Dispose of contents/container in accordance with national regulations.

SECTION 3 Composition and information ingredients

Substance/Mixture	Substance

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Chemical name or generic name	Hydroxylapatite
Chemical formula	$Ca_5(PO_4)_3(OH)$
CAS No.	1306-06-5
Concentration or concentration range	98%
TSCA Inventory	Hydroxylapatite ($Ca_5(OH)(PO_4)_3$)
EINECS number	215-145-7
Radioactive information	Radioactive substances are not used as the material. Therefore, there is no reason that ionizing radiation would be generated.

SECTION 4 First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin	Remove/Take off immediately all contaminated clothing. Wash with a large amount of water and soap for 15 minutes or more. When symptoms such as blistering or pain appear, undergo a diagnosis by a physician according to the necessity.
Eye	Immediately wash your eyes with pure water for 15 minutes or more. If you are using contact lenses, remove and wash unless they are attached. Be certain to undergo a diagnosis by a physician.
Ingestion	Rinse your mouth out immediately. Be certain to undergo a diagnosis by a physician.
Protection of first aiders	Rescuers should wear protective equipment such as protective eyewear and protective gloves.

SECTION 5 Fire-fighting measures

Extinguishing media	This product itself is not flammable.
Extinguishing media are unsuitable	No data
Specific hazards	Since the said product contains P in its molecules, resulting in gases such as phosphorus oxide being contained in combustion gas, take precautions not to inhale smoke during fire extinguishing.
Specific extinguishing methods	Carry out fire extinguishing work from the windward side. If there is a fire in the surrounding area, move containers that can be moved to a safe location promptly. To prevent an increase in temperature of surrounding facilities, etc., cool the periphery using a water spray. Take appropriate measures so that substances that affect the environment do not flow out due to drainage from fire extinguishing.
Protection of fire-fighters	Wear suitable protective equipment (gloves, glasses and a mask) in fire-fighting.

SECTION 6 Accidental release measures

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Personal precautions, protective equipment, and emergency procedures	Prohibit persons other than relevant parties from entering and leaving the areas around leakage locations by setting up a rope around the areas. Wear protective gear when conducting work to prevent droplets, etc. from adhering to the skin and to keep from inhaling dust.
Environmental precautions	Take precautions so that product that has flowed out is not discharged into rivers, etc. and does not impact the environment. Do not drain leakage directly into rivers or drainage.
Methods and materials for containment and methods and materials for cleaning up	Sweep up dust in a manner such that it does not scatter, and collect it in an empty container.
Secondary disaster prevention measures	No data

SECTION 7 Handling and storage precautions

Handling

Technical measures	After handling wearing suitable protection equipment such as protective glasses and protective gloves, your hands and face should be thoroughly washed, and gargling should be performed.
Safety handling precautions	Handling work must be practiced in a room where there is a local or total ventilation facility.

Storage

Safe storage conditions	Seal and store the container in well-ventilated areas.
Safety packaging material	No data

SECTION 8 Exposure controls and personal protection

Ca₅(PO₄)₃(OH)

Permissible concentration

ACGIH

No data

Engineering controls

Use sealed devices, equipment, or a local exhaust ventilation as much as possible.

Personal protective equipment

Respiratory protection	Dustproof mask
Hand protection	Protective gloves
Eye protection	Dustproof glasses
Skin and body protection	Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state	Solid
Form	Granular
Colour	White

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Odour None

Ca₅(PO₄)₃(OH)

pH	<i>No findings</i>
Melting point/Freezing point	1614°C
Boiling point/Initial boiling point and boiling range	<i>No data</i>
Flash point	<i>No data</i>
Evaporation rate	<i>No data</i>
Flammability (solid, gas)	<i>No data</i>
Explosive limits	
LEL	<i>No data</i>
UEL	<i>No data</i>
Vapour pressure	<i>No data</i>
Vapour density (air = 1)	<i>No data</i>
Specific gravity (Relative density)	3.16
(Density)	*1.20 as PHILICFINE HP-1 (bulk density in granular state)
Solubility	
Water	<i>Insoluble</i>
Other solvents	<i>Soluble in acid</i>
n-octanol/Water partition coefficient	<i>No data</i>
Auto-ignition temperature	<i>No data</i>
Decomposition temperature	<i>No data</i>
Viscosity (Coefficient of viscosity)	<i>No data</i>
Other data	<i>None</i>

SECTION 10 Stability and reactivity

Ca₅(PO₄)₃(OH)

Reactivity	<i>None in particular</i>
Chemical stability	<i>Stable under normal handling and storage conditions.</i>
Hazardous reactions	<i>No data</i>
Conditions to avoid	<i>No data</i>
Incompatible materials	<i>No data</i>
Hazardous decomposition products	<i>Hydrogen phosphide, phosphorus oxide</i>

SECTION 11 Hazard information

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Ca₅(PO₄)₃(OH)

Acute toxicity(oral)	No data
Acute toxicity(dermal)	No data
Acute toxicity(inhalation)	No data
Skin corrosion/irritation	May irritate the skin.
Eye damage/eye irritation	May irritate the eye.
Respiratory sensitization/Skin sensitization	May irritate the Respiratory.
Germ cell mutagenicity	No data
Carcinogenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity(single exposure)	No data
Specific target organ toxicity(repeated exposure)	No data
Aspiration hazard	No data
Others	None

SECTION 12 Ecological information

Ca₅(PO₄)₃(OH)

Ecotoxicity	
Fish	No data
Crustaceantoxicity(single exposure)	No data
Algae	No data
Other organisms	No data
Persistence and degradability	No data
Bioaccumulative potential	No data
Mobility in soil	No data
Hazard to the ozone layer	No data
Others	No data

SECTION 13 Notes on disposal

Waste from residues	Process is contracted to industrial waste disposers who received approval of a prefectural governor.
Contaminated container and contaminated packaging	The container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations.

SECTION 14 Transport information

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Ca₅(PO₄)₃(OH)

International regulation

UN classification	N/A
UN number	None
UN proper shipping name	None
Packing group	N/A
Japanese laws and regulations	None
Conditions and specific safety measures of transport	No data

SECTION 15 Regulatory information (Japan)

Ca₅(PO₄)₃(OH)

PRTR Law	None
Occupational Safety and Health Law	None
Poisonous and Deleterious Substances control Law	None
Explosives control Law	None
High-pressure gas security Law	None
Fire fighting Law	None
Chemical substances control Law	None
Ship safety Law	None
Aviation Law	None
Prevention of marine pollution Law	None
Pneumoconiosis Law	None
Note	Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

SECTION 16 Other information

The Safety Data Sheet (SDS) has been prepared based on currently available materials, information and data, and may be revised based on new information. Further, the important points in the SDS are made for the purpose of normal handling.

When handling the user product in a specialized manner, take the appropriate safety measures for the application or method.

Further, Canon Optron Inc. has paid sufficient attention to the described contents of the SDS, but does not guarantee the accuracy of its contents.

Literature Reference

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Pollutant Release and Transfer Register All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Recommendations for Allowable Concentrations (Fiscal 2017): Japan Society for Occupational Health Journal of Occupational Health, Vol. 59 2017

[WEB site]

National Institute of Technology and Evaluation Homepage

Japan Advanced Information Center of Safety and Health Homepage

Ministry of Health, Labour and Welfare Homepage

[Regulatory review Tools]

ezCRIC (Japan Chemical Database Ltd)