

CANON OPTRON INC.

SDS Number: EH07

Product Name: PHILICFINE HP-1

SAFETY DATA SHEET

rev. 7.2 Date of Issue 2016/4/26

Revised Date 2022/10/3

SECTION 1 Chemicals and company identification

Product name	PHILICFINE HP-1
Product code	EH07
Company name	CANON OPTRON INC.
Address	1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan
Section name	Sales Department
Telephone number	+81-296-21-3700
Fax number	+81-296-21-3770
Emergency telephone number	+81-296-21-3700
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

hazard Pictograms	No data available
Signal word	No data available
Dangerous goods hazard information	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.

【Other hazards】

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SECTION 3 Composition/information on ingredients

Substance/Mixture	Substance
Chemical name	Hydroxylapatite
Chemical formula	$Ca_5(PO_4)_3(OH)$
Concentration or concentration range	98%
CAS No.	1306-06-5
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 person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse affected areas with water/shower. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: : Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical advice/attention.
Most important symptoms and effects, both acute and delayed	No data available
Protection of first aiders	Rescuers, wear suitable protective equipment as the situation demands.
Special precautions for physicians	No data available

SECTION 5 Firefighting measures

Suitable extinguishing media	This product itself is not flammable.
Unsuitable extinguishing media	No data available
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.

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Special protective equipment for firefighters	Wear suitable protective equipment (gloves, glasses and a mask) in fire-fighting.
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SECTION 6 Accidental release measures

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 material for containment and 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 for safe handling

Technical measures	Take measures for equipment as described in "8. Exposure controls/personal protection" and wear protective equipment.
Safety handling precautions	Handling work must be practiced in a room where there is a local or total ventilation facility.
Avoidance of contact	Refer to "10. Stability and reactivity."
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Safe storage conditions	Store in a well-ventilated place. Keep container tightly closed.
Safety packaging material	No data available

SECTION 8 Exposure controls/personal protection

Ca₅(PO₄)₃(OH)

Permissible concentration

ACGIH

No data available

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Respiratory protection	Dustproof mask
Hand protection	Protective gloves

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Eye/face protection	Dust-proof glasses
Skin protection	Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state	Solid
Form	Granular
Colour	White
Odour	None

Ca₅(PO₄)₃(OH)

Melting point/freezing point	1614°C
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	
Water	Insoluble
Other solvents	Soluble in acid
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	3.16
(Density)	*1.20 as PHILICFINE HP-1 (bulk density in granular state)
Relative vapor density	No data available
Particle characteristics	No data available
Other information	No data available

SECTION 10 Stability and reactivity

Ca₅(PO₄)₃(OH)

Reactivity	No data available
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Chemical stability	<i>Stable under normal handling and storage conditions.</i>
Possibility of hazardous reactions	<i>No data available</i>
Conditions to avoid	<i>No data available</i>
Incompatible materials	<i>No data available</i>
Hazardous decomposition products	<i>Hydrogen phosphide, phosphorus oxide</i>

SECTION 11 Toxicological information

Ca₅(PO₄)₃(OH)

Acute toxicity(oral)	<i>No data available</i>
Acute toxicity(dermal)	<i>No data available</i>
Acute toxicity (Inhalation: Gases)	<i>No data available</i>
Acute toxicity (Inhalation: Vapours)	<i>No data available</i>
Acute toxicity (Inhalation: Dusts and mists)	<i>No data available</i>
Skin corrosion/irritation	<i>May irritate the skin.</i>
Serious eye damage/irritation	<i>May irritate the eye.</i>
Respiratory or skin sensitization	<i>May irritate the Respiratory.</i>
Germ cell mutagenicity	<i>No data available</i>
Carcinogenicity	<i>No data available</i>
Reproductive toxicity	<i>No data available</i>
Specific target organ toxicity(single exposure)	<i>No data available</i>
Specific target organ toxicity(repeated exposure)	<i>No data available</i>
Aspiration hazard	<i>No data available</i>
Other information	<i>No data available</i>

SECTION 12 Ecological information

Ca₅(PO₄)₃(OH)

Toxicity	
Hazardous to the aquatic environment Short-term(acute)	<i>No data available</i>
Hazardous to the aquatic environment Long-term(chronic)	<i>No data available</i>
Persistence and degradability	<i>No data available</i>

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Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
Hazard to the ozone layer	<i>No data available</i>
Other adverse effects	<i>No data available</i>

SECTION 13 Disposal considerations

Waste treatment methods	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. When disposing of empty containers, the contents should be completely removed.

SECTION 14 Transport information

Ca₅(PO₄)₃(OH)

International regulation

UN number	<i>No data available</i>
UN proper shipping name	<i>No data available</i>
UN classification	<i>No data available</i>
Transport hazard class	<i>No data available</i>
Packing group	<i>No data available</i>
Hazardous to the aquatic environment	<i>No data available</i>
Maritime transport in bulk according to IMO instruments	<i>No data available</i>
Japanese laws and regulations	<i>No data available</i>
Special precautions for users	<i>No data available</i>
Special Provisions	-

SECTION 15 Regulatory information (Japan)

Ca₅(PO₄)₃(OH)

Occupational Safety and Health Law	<i>No data available</i>
PRTR Law	<i>No data available</i>
Poisonous and Deleterious Substances control Law	<i>No data available</i>
Labor Standards Act	<i>No data available</i>
Chemical substances control Law	<i>No data available</i>
Fire fighting Law	<i>No data available</i>

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Air Pollution Control Act	<i>No data available</i>
Water Pollution Prevention Act	<i>No data available</i>
Water Supply Act	<i>No data available</i>
Sewerage Act	<i>No data available</i>
Marine Pollution Prevention Law	<i>No data available</i>
Waste Management and Public Cleansing Act	<i>No data available</i>
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.

The SDS prepared by our company includes all findings from our investigation for reference. Not applicable to all items listed.

Literature Reference

[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)