

Material Safety Data Sheet

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1. Identification of the substance/mixture and of the company/undertaking

Product name: P-20 CSH

Product code: 30066840

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York, 14608

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

Synonyms: None.

2. Hazards identification

CONTAINS: Di(substituted heterocyclic) metal complex (not applicable)

WARNING!

**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES
HEAT SENSITIVE - CAN DECOMPOSE IF HEATED
EXPECTED TO BE A LOW HEALTH HAZARD FOR RECOMMENDED HANDLING**

HMIS II Hazard Ratings:

Health - 1, Flammability - 1, Reactivity (Stability) - 1

NFPA Hazard Ratings:

Health - 2, Flammability - 1, Instability - 1

NOTE: HMIS II and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight %	Components (CAS-No.)
90 - 95	Di(substituted heterocyclic) metal complex (not applicable)
5 - 10	Water (7732-18-5)

4. First aid measures

Inhalation: If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

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Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash off with soap and water. Get medical attention if symptoms occur.

Ingestion: Drink 1 or 2 glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Extinguishing Media: water spray, carbon dioxide (CO₂), dry chemical.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products. Use water spray to cool unopened containers.

Hazardous Combustion Products: Carbon oxides nitrogen oxides (NO_x) sulphur oxides

Unusual Fire and Explosion Hazards: Elevated temperature can cause decomposition. Dust may form explosive mixture in air.

6. Accidental release measures

Methods for cleaning up: Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from heat and sources of ignition. Exercise caution if heating, especially in a closed container. Dust may form explosive mixture in air. Minimize dust generation and accumulation. Ensure adequate ventilation. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Keep from contact with oxidizing materials.

Storage: Store in cool place. Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls / personal protection

Occupational exposure controls: Not established

Ventilation: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Respiratory protection: If engineering controls do not maintain airborne concentrations to an

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acceptable level, an approved respirator must be worn. Respirator type: N95 Particulate Filter. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

Eye protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin and body protection: It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities as appropriate to condition of use.

9. Physical and Chemical Properties

Physical form: solid

Colour: No data available

Odour: No data available

Specific gravity: No data available

Vapour pressure: No data available

Vapor density (air = 1): No data available

Volatile fraction by weight: > 5 %

Melting point/range: No data available

Water solubility: No data available

pH: not applicable

Flash point: not applicable, combustible solid

10. Stability and reactivity

Stability: Stable under normal conditions. Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.

Exotherm onset temperature: 175 °C by DSC.

Incompatibility: strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

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Effects of Exposure

General advice: The toxicological properties of this material have not been fully investigated and its handling and use may present additional hazards.

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: No specific hazard known. May cause transient irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Expected to be a low hazard for recommended handling.

Acute Toxicity Data:

- Oral LD50 (rat): > 2,000 mg/kg
- Skin irritation: none
- Skin Sensitization: none

12. Ecological information

Environmental data is not available.

13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

US DOT:	UN Number:	UN3088
	Proper shipping name:	Self-heating, solid, organic, n.o.s. (Di(substituted heterocyclic) metal complex)
	Class:	4.2
	Packaging group:	II

IMDG:	UN Number:	UN3088
	Proper shipping name:	SELF-HEATING SOLID, ORGANIC, N.O.S. (Di(substituted heterocyclic) metal complex)
	Class:	4.2
	Packaging group:	II

IATA:	UN Number:	UN3088
	Proper shipping name:	Self-heating solid, organic, n.o.s. (Di(substituted heterocyclic)

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Class: metal complex)
4.2
Packaging group: II

For more transportation information, go to: <http://ship.carestreamhealth.com>.

15. Regulatory information

U.S. California Prop. 65: none

Carcinogenicity Classification (components present at 0.1% or more):

International Agency for Research on Cancer (IARC): none
American Conference of Governmental Industrial Hygienists (ACGIH): none
U.S. National Toxicology Program (NTP): none
U.S. Occupational Safety and Health Administration (OSHA): none

Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:
none

16. Other information

US/Canadian Label Statements:

CONTAINS: Di(substituted heterocyclic) metal complex (not applicable)

WARNING!

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HEAT SENSITIVE - CAN DECOMPOSE IF HEATED
EXPECTED TO BE A LOW HEALTH HAZARD FOR RECOMMENDED HANDLING**

Store in a cool place.
Keep away from heat and sources of ignition.
Minimize dust generation and accumulation.
Avoid breathing dust.
Avoid contact with eyes, skin, and clothing.
Ensure adequate ventilation.
Wash thoroughly after handling.

FIRST AID: Treat symptomatically. Get medical attention if symptoms occur.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

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Since emptied containers retain product residue, follow label warnings even after container is emptied.

IN CASE OF FIRE: Use water spray, carbon dioxide (CO₂), dry chemical. Use water spray to cool unopened containers.

IN CASE OF SPILL: Shovel into suitable container for disposal. Avoid dust formation.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-1, S-1, F-1, C-2HT