

SAFETY DATA SHEET

Revision date: 7-August-2025

1. Identification

Product identifier

- Trade name NCP SUPPORTS™
- Product name NCP-10, NCP-20, NCP-50, NCP-100, MCP

Cat No.: MMS-NC-0114, MMS-NC-0115, MMS-NC-0116, MMS-NC-0117, MMS-NC-0123

CAS No.: 7440-44-0

EC No.: 231-153-3

Industrial/Professional use spec Industrial, research applications

For professional and industrial use only.

Use of the substance/mixture Source of monodisperse, highly porous, electronically conductive carbon powders for catalyst supports, batteries and as reverse opal templating agents for nanostructured materials.

Details of the supplier of the safety data sheet

Supplier: Momentum Materials Solutions Corp.
253147 Bearspaw Road, Calgary, Alberta T3L 2P5
Canada
TEL: +1 (368)997-9893
FAX: +1 (587)206-9760
EMAIL: info@momentummaterials.com
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Emergency telephone FOR EMERGENCIES CALL YOUR LOCAL GENERAL PRACTITIONER
CALL 911 IF THERE IS LIFE-THREATENING INCIDENT

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Label Elements

None required.

Hazards not otherwise classified (HNOC)

None identified.

Disposal

P501 dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

Component	CAS-No.	EC-No.	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carbon	7440-44-0	231-153-3	100	Not classified

4. First-aid measures

First-aid measures after inhalation

Move the affected person away from the contaminated area and into the fresh air. Seek medical attention if ill effect or irritation develops. Wear approved dust mask to avoid breathing dust.

First-aid measures after skin contact

Wash with mild soap and warm water. Carbon dust or powder may cause drying of the skin with repeated and prolonged contact. Powder is not a known chemical irritant. Treat symptomatically for mechanical irritation.

First-aid measures after eye contact

Rinse with tepid water until eyes are clear of particulates. Seek medical attention if irritation persists. Carbon powder is not a chemical eye irritant. Treat symptomatically for mechanical irritation.

First-aid measures after ingestion

Seek medical attention immediately. Do not induce vomiting unless instructed by medical personnel. Get victim to drink a small amount of water. Never

give anything by mouth to an unconscious person.
Call a POISON CENTRE or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	No data available.
Symptoms/injuries after skin contact	Not known to irritate skin.
Symptoms/injuries after eye contact	No data available.
Symptoms/injuries after ingestion	No data available.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical extinguisher. Foam. Carbon dioxide. Water spray. Sand. Limestone powder.
Unsuitable extinguishing media	Do not use a heavy spray flow, as the NCP powders are easily spread. Do not use a high-pressure media which could cause the formation of a potentially explosible dust-air mixture.
Hazardous decomposition products in case of fire	Carbon oxides.
Firefighting instructions	In the event of fire, wear self-contained breathing apparatus, gloves, safety goggles.
Protective equipment for firefighters	Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Remove all sources of ignition. Ventilate area. Avoid breathing dust. Keep people away from and upwind of spill/leak. Access to the leakage area should be controlled for non-involved personnel by roping it off. For emergency responders: Wear an approved dust mask, safety goggles, and conventional work gloves. Same methodology as for non-emergency personnel.
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Environmental precautions

Prevent further leakage or spillage if safe to do so.
Avoid entering drains.

Methods and material for containment and cleaning up

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Refer to sections 8 and 13.

7. Handling and storage

Precautions for safe handling

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and chemical safety gloves.

Avoid inhalation. Avoid contacting with eyes, skin and clothing. Prevent generation of dust. Keep away from ignition sources, heat and flame. No smoking at working site.

Handling should be performed in a well-ventilated place. Wash hands and face thoroughly after handling.

Incompatibilities: strong oxidants. Load and unload gently when handling. Prevent the package from breaking and getting damp so as to cause losses.

Workplace should be equipped with appropriate varieties and quantities of fire-fighting equipment and leakage emergency treatment equipment.

Conditions for safe storage, including any incompatibilities

Store in cool and dry place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame.

Incompatibilities: strong oxidants.

Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

8. Exposure controls / personal protection

Exposure Guidelines

Component: nanoporous carbon powder		
ACGIH	Not set up	-

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Exposure controls

Appropriate engineering controls	Mechanical exhaust required. Safety shower and eye bath.
Personal protective equipment	
Skin protection	Hand protection: wear compatible protective gloves. Body protection: wear appropriate protective clothing.
Eye/face protection	Wear laboratory goggles, or full side shielded safety glasses.
Respiratory protection	Wear government approved respirator if needed.
Thermal hazard protection	Eliminate all sources of ignition. Avoid electrical equipment, sparks, flames and do not smoke in risk area.
Other information	Do not eat, drink or smoke during use. Wash hands thoroughly after handling.

9. Physical and chemical properties

Physical state	Black powder
Colour	Black
Odour	Weak odor
Odour threshold	No data available
pH	Not applicable
Relative evaporation rate (butyl acetate=1)	Not applicable
Melting point	No data available
Freezing point	Not applicable
Boiling point	No data available

Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20 °C	Not applicable
Relative density	Not applicable
Density	No data available
Solubility	Hardly soluble in water
Log Pow	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	No data available
Oxidizing properties	Not applicable
Explosive limits	No data available
VOC content	No data available

10. Stability and reactivity

Reactivity	No data available.
Chemical stability	Stable under room temperature and ambient pressure.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Contact with oxidizing substances or ignition sources.
Incompatible materials	Strong oxidants.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available

Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
Potential Adverse human health effects and symptoms	No data available

12. Ecological information

Toxicity (Ecology – general)	No data available
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Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available

13. Disposal considerations

Waste treatment methods	Recycle as far as possible. If unable to recycle, it is recommended to incinerate under supervision. Do not dispose or discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. Dispose by a qualified chemical waste treatment department.
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14. Transport information

UN-No. (ADR)	Not regulated
UN-No. (IMDG)	Not regulated

UN-No. (IATA)	Not regulated
UN-No. (ADN)	Not regulated
UN-No. (RID)	Not regulated
Proper Shipping Name (ADR)	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated
Proper Shipping Name (ADN)	Not regulated
Proper Shipping Name (RID)	Not regulated
Transport hazard class(es) (ADR)	Not regulated
Transport hazard class(es) (IMDG)	Not regulated
Transport hazard class(es) (IATA)	Not regulated
Packing group (ADR)	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	Not regulated
Packing group (ADN)	Not regulated
Packing group (RID)	Not regulated
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available
Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

15. Regulatory information

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

EINECS/ELINCS

Listed

National regulations

National regulations

Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

Disclaimer

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

End of SDS