

Safety Data Sheet

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

1.1 Product identifier

Trade name CARBON BLOCK

CAS Number: 7440-44-0 EC number:

1.2 Relevant identified uses of the substance or mixture and uses advised against.

Identified use: Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: JH CARBON LIMITED

FLAT/RM 1502 EASEY COMMERCIAL BUILDING 253-261 HENNESSY ROAD WANCHAI, HONGKONG, CHINA

TEL: 00852-30697751 FAX:00852-30697752

Informing department: Product safety department. 1.4 Emergency telephone number: 00852-30697751

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Other hazards that do not result in classification No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable

2.3 Other hazards
Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

3.1 Substances CAS# Designation: 7440-44-0 Carbon 95-98% Identification number(s): EC number: 231-153-3

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice.

After skin contact

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

3 Advice for firefighters

Protective equipment:
Wear self-contained breathing apparatus.

Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.

6.3 Methods and material for containment and cleaning up: Collect mechanically.

Prevention of secondary hazards: No special measures required. 6.4 Reference to other sections

See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Information about protection against explosions and fires: No information known.

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7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Do not store together with acids.

Store away from oxidising agents

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

7440-44-0 Carbon (100.0%)

WEL () Long-term value: 10* 4** mg/m³
*inhalable dust **respirable

Additional information: No data

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use breathing protection with high concentrations.
Recommended filter device for short term use:
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if airpurifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Check protective gloves prior to each use for their proper condition

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Material of gloves Nitrile rubber, NBR

Penetration time of glove material (in minutes) 480

Glove thickness 0.11 mm

Eye protection: Safety glasses
Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information

Appearance:

Solid in various forms: Form: Colour: Black

Smell: Not determined

Odour threshold: Not determined pH-value: Not applicable.

Change in condition Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start:
Inflammability (solid, gaseous)
Ignition temperature: Not determined Not determined Not determined Not determined Not determined ecomposition temperature: Not determined

Self-inflammability:

Not determined Not determined.

Danger of explosion: Critical values for explosion: Lower: Not determined

Not determined Upper: Steam pressure: Density at 20 °C Not applicable. 2.26 g/cm³ Relative density Vapour density Not determined. Not applicable. Not applicable. Evaporation rate
Solubility in / Miscibility with
Water:

Insoluble Partition coefficient (n-octanol/water): Not determined. Viscosity dynamic: Not applicable.

kínematic

Not applicable.
No further relevant information available. 9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity No information known.
10.2 Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions Reacts with strong oxidising agents

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Oxidising agents

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
LD/LC50 values that are relevant for classification: No data
Skin irritation or corrosion: May cause irritation

Eye irritation or corrosion: May cause irritation

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Sensitization: No sensitizing effect known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Generally not hazardous for water. Avoid transfer into the environment

5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation
Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

UN-Number ADR, ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Not applicable
Packing group ADR, IMDG, IATA	Not applicable
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
UN "Model Regulation":	-

SECTION 15: Regulatory information

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

Australian Inventory of Chemical Substances Substance is listed.

Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.

National regulations
Information about limitation of use: For use only by technically qualified individuals.
Classification according to VbF: Not applicable

Water hazard class: Generally not hazardous for water

Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical Substances) Substance is not listed.
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing on the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the REACH (REACH) for the REACH (REACH) for the REACH (REACH

the market and use must be observed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other informationEmployers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VbF: Verordunung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
VPVB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

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