

Shenzhen Clean Environmental Protection Technology Co., Ltd.

According to UN GHS (the 7th revised edition)

Material Safety Data Sheet (MSDS)

Activated carbon

Model No.: gx20

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(Jose)

Approved by T Greaty

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Client No.: NM55LQH

Version: 1.0

Product name: Activated carbon

MSDS No.: E55.180,611,002,LQH

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Section 1 - Product and Company Identification

1.1. Product Identification:

Product name: Activated carbon

Model No.; gx20

Logo



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

Identified uses: Purifying and filtering air and water quality

Use advised against: Not available

1.3. Details of the Manufacturer or applicant

Manufacturer: Shenzhen Clean Environmental Protection Technology Co., Ltd.

Address: No. 218, A Building, Huaqiao New Town, Minzhi Street, Longhua District, Shenzhen

Telephone: +86-13926565077 Fax: +86-755-83346763

Post code: 518000

E-mail: 13926565077@163.com

1.4. Emergency telephone number

Emergency telephone: +86-755-83346763

Section 2 - Hazard Description

Hazard class and label elements of the product according to GHS (the 7th revised edition):

2.1. GHS Classification of substance or mixture:

Non-hazardous substance or mixture.

2.2. Label elements:

Hazard pictograms: Not applicable.

Signal word: Not applicable.

Hazard statements: Not applicable.

2.3. Other Hazards: None.

Section 3 - Composition / Ingredient Data

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3.1. Material: Not applicable

3.2. Mixture

Chemical Name	CAS#	Percent (by weight)		
Carbon	7440-44-0	85		
Carboxymethyl cellulose	9004-32-4	10		
Water	7732-18-5	5		

Section 4 - First Aid Measures

4.1. General advice:

Show this safety data sheet to the doctor in attendance. After receiving the first-aid measure required, consult a physician if necessary.

4.2. Skin contact:

Remove contaminated clothing and shoes immediately. Wash off with mild soap and plenty of water. If skin irritation persists, consult a physician immediately.

4.3. Eyes contact:

Check for and remove any contact lenses. Get medical attention. Immediately flush eyes with running water for at least 30 minutes, disappear until the chemical residues so far, keeping eyelids open. Provide a readily-accessible eyewash facility and quick-drench safety shower. Do not rubbing eyes with hand.

4.4. Inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing or if breathing is irregular, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

4.5. Ingestion:

Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention Immediately. Maintain an open airway.

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4.6. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.7. Immediate / special treatment:

Continue with first aid measures. Treat symptomatically and supportively. Symptoms may be delayed.

Section 5 - Firefighting Measures

5.1. Extinguishing method and extinguishing agent

Suitable fire extinguishing agent: Use dry sand, dry chemical or CO₂ foam extinguishing. Water spray can be used to cool fire exposed containers/materials. Use extinguishing media most appropriate for the surrounding fire.

Unsuitable fire extinguishing agent: Do not use a solid water stream as it may scatter or spread fire

5.2. Special hazards arising from the substance or mixture:

In combustion emits toxic fumes.

5.3. Advice for fire-fighter:

Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. As far as possible will be transferred to empty containers from the scene. Keep the fire water spray container cooling, until the end of fire. If the containers in the fire ground have been color, must be evacuated immediately. Isolated accident scene, prohibit access. Receiving and processing of fire, to prevent environmental pollution

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material, avoid slipping. Avoid breathing dusts. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions:

Prevent further leakage or spillage if safe to do so. To prevent leak into the water, the basement and limited space. Prevent entry into the sewage system.

6.3. Collecting, clearing method and disposal material.

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Pick up and arrange disposal without creating dust. Collect mechanically. Keep in suitable, closed containers for disposal.

Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations

Section 7 - Handling and Storage

7.1 Handling precautions:

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid contact eyes and skin. Do not ingest. Avoid breathing dust. Normal measures for preventive fire protection. Observe good housekeeping procedures and hygiene practices. Wash thoroughly after handling. Avoid dust formation. Provide for appropriate exhaust ventilation and dust collection at machinery. Handling carefully to prevent damage the packaging and container. Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment. Keep away from oxidants, moisture-proof, it may be flammable to heat up after damp

7.2. Information about protection against explosions and fires:

Non inflammable and explosive products, general rules of fire prevention should be observed. Keep away from open fires, fire sources and water.

7.3. Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Keep away from heat/sparks/open flames/water. Keep container tightly closed and sealed until ready for use. Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment. Avoid contact with children, avoid eating. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

7.4. Packaging materials:

Recommended-Use original container.

Section 8 - Exposure Controls/ Personal Protection

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B.1. Exposure limit:

Chemical Name	CAS#	Limit	
Carbon	7440-44-0	TWA 3.5mg/m³; STEL 7 mg/m³	

8.2. Engineering control:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Set up emergency exit and necessary risk-elimination area

8.3. Personal protection:

Respiratory protection:

Use a respirator with an approved filter in case of dust formation, on production of dust provide adequate extraction.

Eye protection:

Wear safety glasses when there is a potential for eye contact.

Skin and body protection:

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)

Hands protection:

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard

Other protection:

Smoking, eating and drinking water is forbidden in the workplace. After work, shower and change clothes. To maintain good health habits.

Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:

Grain, błack

Odor:

Melting point / freezing point(10):

Odorless 3550±50

Boiling point(*C):

4200

Flash point(Closed cup, T):

No data available/Not applicable

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Steam pressure(20°C):

No data available/Not applicable

Relative density (water=1, 20 ℃):

1.8-2.1

Partition coefficient: n-octanol/water:

No data available/Not applicable

Decomposition temperature(*C):

No data available/Not applicable

pH value:

6-9

Explosion limit
Vapor density:

Water soluble:

No data available/Not applicable

No data available/Not applicable Insoluble in water

Auto-ignition temperature

No data available/Not applicable

Flammability (solid, gas):

Flammable

Oxidizing properties:

The substance or mixture is not classified as oxidizing

9.2. Other safety information

No data available/Not applicable

Section 10 - Stability and Reactivity

10.1. Stability:

The product is chemically stable.

10.2. Reactivity:

Stable under recommended storage and handling conditions.

10.3. Incompatible materials:

Strong oxidizing agent.

10.4. Conditions to avoid:

Incompatible materials, all ignition sources including heat, sparks and flame and water.

10.5. Hazardous Polymerization:

Will not occurs.

10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced

Section 11 - Toxicological Information



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11.1. Acute toxicity:

Component GAS No.		LDsc(Oral)	LDso(Dermal)	LCss(Inhalation)	
Carbon	7440-44-0	Rat: >5000mg/kg	No data	No data	
Carboxymethyl cellulose	9004-32-4	Rat: 27000mg/kg Mouse: >27000mg/kg	Rabbit: >2000mg/kg	Rat: >5800 mg/m³/4H	

11.2. Skin corrosion/irritation:

Atlergic persons to the substances contained, may be irritating to skin. Will not irritate to skin under normal conditions.

11.3. Eye corrosion/irritation:

If dusts enter the eyes will stimulate the eyes

11.4. Respiratory or skin sensitization:

These products are not known to cause human skin or respiratory sensitization

11.5. Germ cell mutagenicity

According to the existing data, the product is not classified.

11.6. Carcinogenicity:

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

11.7. Reproductive toxicity:

According to the existing data, the product is not classified

11.8. Specific target organ toxicity - single exposure

According to the existing data, the product is not classified.

11.9. Specific target organ toxicity - repeated exposure:

According to the existing data, the product is not classified

11.10 Aspiration hazard:

According to the existing data, the product is not classified.

Section 12 - Ecological Information

12.1. Ecotoxicity values:

This product contains no hazardous or toxic substances, and presents a negligible impact on the environment based on its reported use pattern

12.2. Persistence and degradability;

The products are usually with natural biodegradable.

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12.3. Bio accumulative potential;

The potential for bioaccumulation of this material in aquatic organisms is low

12.4. Mobility in soil:

No data.

12.5. Other adverse effects:

Hamiless to water, but without government permission, do not dispose directly into rivers, watercourses or drains:

Section 13 - Disposal Considerations

13.1. Waste:

Should be recycled. Ignition under control or landfill should only be considered when recycling is not feasible.

13.2. Contaminated packaging:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible

13.3. Disposal considerations:

Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with national and local relevant regulations laws

Section 14 - Transport Information

According to IATA DGR 59th Edition for transportation, IMO International Maritime Dangerous Goods Code European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR. IMDG and ADR/RID.

14.1 UN number

ADR, RID, IMDG, IATA: Not regulated

14.2 UN proper shipping name

ADR, RID, IMDG, IATA: Not regulated

14.3 Transport hazard class(es)

ADR, RID, IMDG, IATA: Not regulated

14.4 Packaging group

ADR, RID, IMDG, IATA: Not regulated

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14.5 Environmental hazards

IMDG Marine pollutant: No

14.6. Shipping note: Should check whether the container is full, sealed before shipping. Ensure that the product does not collapse, fall, and not damaged in transport process. Transportation should prevent insolation and high temperature and water.

Section 15 - Regulatory Information

15.1. Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	EINECS	DSL	IECSC	NZIoC	PICCS	KECI	AICS
7440-44-0	Listed							
9004-32-4	Listed							
7732-18-5	Listed							

TSCA: United States Toxic Substances Control Act Inventory

EINECS: European Inventory of Existing Commercial Chemical Substances

DSL: Canadian Domestic Substances List

IECSC: China Inventory of Existing Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

NZIoC: New Zealand Inventory of Chemicals

KECI: Existing and Evaluated Chemical Substances AICS: List of existing chemical substances in Australia

Section 16 - Other Information

Abbreviations or phrases:

ACGIH

American Conference of Governmental Industrial Hygienists

ADR

European Agreement concerning the International Carriage of Dangerous Goods by

Road

CAS

Chemical Abstracts Service

CLP

Classification, labeling and packaging

EC

; Council of Europe

ECHA

: European Chemicals Agency

EINECS

: European Inventory of Existing commercial Chemical Substances

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GHS Globally Harmonized System of Classification and Labiling of Chemicals

IARC International Agency for Research on Cancer

IATA : International Air Transport Association
ICAO : International Civil Aviation Organization

IMDG International Maritime Dangerous Goods Code

IC50 Inhibitory Concen Triton 50%
IC50 Lethal Concentration 50%
ID50 Median Lethal Dose 60%

MAPROL International Convention for the Prevention of Pollution from Ships

REACH REGULATION concerning the Registration, Evaluation, Authorization and Restriction of

Chemicals

RID Regulation for rail International transportation of Dangerous goods

STEL Short Term Exposure Limit
TWA Time Weighted Average

MAC Maximum Allowable Concentration

OSHA Occupational Safety and Health Administration
NIOSH National Institute for Occupational Safety and Health

TLV : Threshold Limit Value

TLV-TWA: Threshold Limit Value-Time Weighted Average
TLV- STEL: Threshold Limit Value-Short term Exposure Limit
PC-TWA: Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit

PEL : Permissible Exposure Limit
OELs : Occupational Exposure Limits

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