

Material Safety Data Sheet

Jurassic Carbon.

1 . Product and company identification

Common name	: Jurassic Carbon.	
Synonym	: Activated carbon; Charcoal, activated, powder; carbon black; Carboraffin; Carborafine.	
Supplier	: Jurassic Activated Carbon Inc. 161 Kingslake Road, North York, ON, Canada, M2J 3G4 Tel: 416-297-8876 Fax: 416-297-9976 E-mail: Service@JurassicCarbon.com	
Origin	: China	
MSDS authored by:	: Kemika XXI Inc. + 1-450-435-7475	02/23/2006
In case of emergency	: CANUTEC (613) 996-6666 CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887	

2 . Hazards identification

Physical state	: Solid. (Powder.)
Odor	: Odorless.
Color	: Black.
Hazard status	: This material is classified hazardous under OSHA regulations in the United States and this material is classified non-hazardous under WHMIS Controlled Product Regulation in Canada.
Emergency overview	: WARNING ! CAUSES DAMAGE TO THE FOLLOWING ORGANS: CARDIOVASCULAR SYSTEM, RESPIRATORY TRACT. Not applicable.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Inhalation	: May cause respiratory tract irritation.
Ingestion	: No known significant effects or critical hazards.
Potential chronic health effects	: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.
Medical conditions aggravated by over-exposure	: Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

3 . Composition/information on ingredients

United States

Name	CAS number	%
Activated carbon.	7440-44-0	70 - 100

Canada

Name	CAS number	%
Activated carbon.	7440-44-0	70 - 100

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

5 . Fire-fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Products of combustion** : These products are carbon oxides.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special remarks on fire hazards** : Airborne dust. Weak explosion hazard.

6 . Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

7 . Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

United States

Product name

Activated carbon.

Exposure limits

ACGIH TLV (United States).

TWA: 2 mg/m³ 8 hour(s). Form: Graphite, all forms except graphite fibers.

OSHA PEL (United States).

TWA: 15 mg/m³ 8 hour(s). Form: Total particulates
TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

Canada

Product name

Activated carbon.

Exposure limits

ACGIH TLV (United States).

TWA: 2 mg/m³ 8 hour(s). Form: Graphite, all forms except graphite fibers.

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

- Eyes** : Safety glasses.
- Skin** : Lab coat.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.
- Hands** : Natural rubber (latex).



- HMIS Code/Personal protective equipment** : B

- Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

- Physical state** : Solid. (Powder.)
- Color** : Black.
- Odor** : Odorless.
- Molecular weight** : 12.01
- Molecular formula** : C
- Melting/freezing point** : Sublimation temperature: 3650°C (6602°F)
- Relative density** : 1.8 to 2.1 (Water = 1)
- Vapor density** : 0.4 (Air = 1)
- Volatility** : 0% (v/v)

VOC : 0 (%)
Solubility : Insoluble in cold water, hot water.

10 . Stability and reactivity

Stability and reactivity : The product is stable.
Incompatibility with various substances : Reactive with oxidizing materials.
Hazardous polymerization : Will not occur.

11 . Toxicological information

Acute Effects

Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : May cause respiratory tract irritation.
Ingestion : No known significant effects or critical hazards.
Potential chronic health effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
 Mutagenic effects: Not available.
 Teratogenic effects: Not available.
Target organs : Causes damage to the following organs: cardiovascular system, upper respiratory tract.

12 . Ecological information

Environmental precautions : No known significant effects or critical hazards.
Products of degradation : These products are carbon oxides.
Toxicity of the products of biodegradation : The product itself and its products of degradation are not toxic.

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14 . Transport information

AERG : Not applicable.

Regulatory information

UN/ IMDG/IATA DOT/ TDG : Not regulated.

15 . Regulatory information

United States

HCS Classification : Target organ effects
U.S. Federal regulations : TSCA 8(b) inventory: Activated carbon.
 SARA 302/304/311/312 extremely hazardous substances: Not listed.
 SARA 302/304 emergency planning and notification: Not listed.
 SARA 302/304/311/312 hazardous chemicals: Not listed.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Not listed.

Clean Water Act (CWA) 307: Not listed.
 Clean Water Act (CWA) 311: Not listed.
 Clean Air Act (CAA) 112 accidental release prevention: Not listed.
 Clean Air Act (CAA) 112 regulated flammable substances: Not listed.
 Clean Air Act (CAA) 112 regulated toxic substances: Not listed.

State regulations : No products were found.
 California prop. 65: No products were found.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).
 CEPA DSL: Activated carbon.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

International lists : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Label requirements (U.S.A.) : CAUSES DAMAGE TO THE FOLLOWING ORGANS: CARDIOVASCULAR SYSTEM, RESPIRATORY TRACT.

Hazardous Material Information System (U.S.A.) :

HMIS RATING

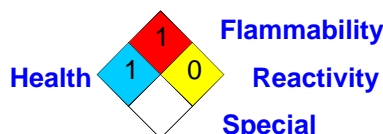
Health	*	1
Fire hazard		1
Physical Hazard		0
Personal protection		B

HAZARD RATINGS

4- Extreme
 3- Serious
 2- Moderate
 1- Slight
 0- Minimal

See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.) :



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.