

MSDS Report

ACCREDITATION CERTIFICATE OF CHINA NATIONAL
ACCREDITATION BOARD FOR LABORATORIES

Samples SCG Graphite Sheet (SCG300J)

Client Unit Sanwachemica Co., Ltd

Client Address 〒136-0071 1-27-4 Kameido Koto Tokyo Japan

Signed for and on behalf of
BACL



William Wei



Material Safety Data Sheet

Section 1-Chemical Product and Company Identification

Product Name : SCG Graphite Sheet
Sample Code : SCG300J
Manufacturer/ Supplier : Sanwachemica Co., Ltd
Address : 〒136-0071 1-27-4 Kameido Koto Tokyo Japan
Tel. : +81-03-3638-3110
Company Emergency Telephone : +86 (0) 15013834808
Fax : +81-03-3636-6553
Email : liqin@sanwachemica.co.jp
Website : www.sanwachemica.co.jp
Valid date : April 13, 2009

Section 2- Composition/Information on Ingredient

Component	CAS No.	Range % by Wt.
Carbon	7440-44-0	99.51
Calcium silicate	1344-95-2	0.16
Calcium phosphate	12167-74-7	0.16
Sodium sulfate	7757-82-6	0.04
Chromium chloride	10025-73-7	0.01
Iron chloride	7705-08-0	0.12

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Bay Area Compliance Laboratories Corp. (Shenzhen)

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Section 3- Hazards Identification

Emergency overview

Dust may cause mechanical eye and skin irritation during cutting. May cause respiratory tract irritation. May cause lung damage. May cause central nervous system effects.

Routes of entry

Inhalation, skin, eye.

Eye

Dust may cause mechanical irritation. May cause lacrimation (tearing), blurred vision, and photophobia. May cause chemical conjunctivitis and corneal damage.

Skin

Dust causes mechanical irritation.

Inhalation

Dust may cause lung damage. Olfactory fatigue may occur. Can produce delayed pulmonary edema. Inhalation of dusts cause severe irritation of the upper respiratory tract, gastrointestinal disturbances, albuminuria, gradual loss of weight, and increasing weakness.

Ingestion

May cause nausea, vomiting, abdominal pain, and increased salivation.

Chronic

Chronic inhalation may lead to decreased pulmonary function.

Section 4 - First Aid Measures

Eyes contact

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

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Section 5 – Fire Fighting Measures

Types of hazard

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire.

Hazardous combustion products

At complete combustion, the major products formed are carbon dioxide, carbon monoxide.

Fire-fighting measures

For large fires, use water spray, fog or regular foam. For small fires, use dry chemical, carbon dioxide, sand, earth, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out.

Autoignition Temperature

450 .

Other Information

Move container from fire area if you can do it without risk. Keep upwind.

Section 6 – Accidental Release Measures

General Information

Use proper personal protective equipment as indicated in Section

Spills/Leaks

Vacuum or sweep up material and place into a suitable disposal container. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition.

Section 7 – Handling and Storage Measures

Handling

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage

Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

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Section 8 – Exposure Controls and Personal Protection

Occupational exposure limits

ACGIH: None listed.
NIOSH: None Listed.
OSHA: None Listed.

Engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate impervious gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to minimize contact with skin.

Respirators

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Section 9- Physical and Chemical Properties

Appearance and odor	Solid, odorless, leaden.
Flash point ()	N/A.
Melting point ()	>3600 .
Boiling point ()	>4000
Relative density (water=1)	1.5 ~ 2.0 (20)
Relative vapour density (air=1)	N/A.
Vapour pressure (kPa) :	N/A.
Heat of combustion (kJ/mol)	No information.
Auto-ignition temperature()	450
Solubility	Insoluble in water
Lower explosive limits %(V/V)	N/A.
Upper explosive limits %(V/V)	N/A.

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Section 10 - Stability and Reactivity

Stability

Stable under ordinary conditions of use and storage.

Incompatibility

Oxidizing agents, alkali metals, iron oxide, lead oxide, liquid oxygen, manganese oxide, metallic salts, chlorinated paraffins, dibenzoyl peroxide, nitrobenzaldehyde, potassium hydroxide, sodium hydrogen carbonate.

Conditions to Avoid

Dust generation, moisture, excess heat.

Hazardous Polymerization

No information.

Hazardous decomposition

Carbon monoxide, carbon dioxide.

Section 11- Toxicological Information

Acute toxicity:

Oral:LD:>5gm/kg (dog),LD:>5gm/kg (mus),LD:>5gm/kg (rat).

CAS 7440-44-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found.

Teratogenicity: No information found.

Reproductive Effects: No information found.

Mutagenicity: Mutagenic effects have been observed on tests with laboratory animals.

Neurotoxicity: No information found.

Section 12- Ecological Information

Ecological toxicity	No information.
Degradability	Do not allow material to be released to the environment without proper governmental permits.
Bioaccumulation	No information.

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Section 13 - Disposal Information

Disposal measures

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14- Transportation Information

IATA

Non restricted.

IMO

Non restricted.

Section 15 – Regulatory Information

US

TSCA

CAS 7440-44-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

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California

No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Safety Phrases:

S 24/25. Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS 7440-44-0: 0

Canada - DSL/NDSL

CAS 7440-44-0 is listed on Canada's DSL List.

Canada – WHMIS

This product has a WHMIS classification of B6, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Section16 – Other Information

Issue date	April 13, 2009
Prepared by	Technique dept. of Bay Area Compliance Laboratories Corp.
Checked by	Bay Area Compliance Laboratories Corp.

Note:

This MSDS conforms to the requirements of ISO11014 and GB16483. This MSDS is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

Remark: Photograph appendix is included.

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Appendix

Photograph of Sample



BACL authenticate the photo on original report only

The End

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