

Safety Data Sheet

for Chemical Products

(According to GB/T 16483-2008)

S D S

Version: 1.0-English

Product name: EC31C CALCIUM CARBONATE COMPOUND

Preparation date: 2011-6-10

Revision date: 2011-6-10

Section 1 - Chemical Product & Company Information

Product identifier:

Product name: EC31C ADDITIVE MASTRBATCH
Product description: 83% calcium carbonate compounds in PE

Supplier identifier:

Company name: Changzhou Gaia Material Science Co., Ltd.
Address: No.1, Huanbao 10RD, Environment Protect Industry Park,Xinbei District, Changzhou, Jiangsu,China.
Postcode: 213033
E-mail: songhuacao@chinagaia.com
Telephone: +86-519-89591029
Fax: +86- 519-89591036

Emergency telephone:

+86- 519-89591029

Section 2 - Hazards identification

GHS classification:

GHS hazard class: Not classified.

GHS label elements:

Pictogram: No pictogram used.
Signal word: No signal word used.
Hazard statement: No information available.
Precautionary statement: No information available for prevention, response, storage and disposal.

Danger/hazard identification :

Physical hazards: No information available.

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Health hazards: No health hazards under normal use.

Environmental hazards: No environmental hazards under normal use.

Emergency review:

No hazards under normal use. Direct contact with the eyes and skin may cause slightly irritating. See Section 4 for First-aid Measures. In all cases of any doubt, seek medical attention.

Section 3 – Composition/Information on ingredients

Description of the chemical product: Mixture.

Main ingredients:

Chemical name	CAS No.	Concentration range	Typical concentration
Calcium carbonate	471-34-1	81-85%	83%
Polyethylene/Polyethylene wax	9002-88-4	18-22%	19.7%
Complex antioxygen	-	0.1-0.5%	0.3%

Section 4 – First-aid Measures

If inhalation:

Remove from exposure and move to fresh air immediately. If necessary, give artificial respiration, and seek medical advice.

If skin exposure:

Immediately flush skin with plenty of water or soap while removing contaminated clothing and shoes. Seek medical advice if irritation persists.

If eye exposure:

Immediately flush eyes with plenty of water. Seek medical advice if irritation persists.

If ingestion:

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Rinse out mouth with water. Never give anything by mouth to an unconscious person. If intake is overmuch, get medical aid immediately.

Acute/delayed effects and the main symptoms:

No hazards under normal use.

Notes for the doctor:

Attending physician should treat exposed patients symptomatically.

Section 5 - Fire Fighting Measures

Extinguishing agent:

Suitable extinguishing agent: Powder, foam, water spray.

Unsuitable extinguishing agent: No information available.

Special fire-fighting methods: Cool containers with water spray.

Special hazard arising from the product:

Flammable under strong heating or flame and sparks. In the event of fire, irritating and toxicity fumes may develop. Hazardous combustion products: carbon oxides.

Fire-fighting measures and protection for fire-fighters:

Fire-fighters should wear appropriate breathing apparatus and protective equipment.

Fire-fighting in the wind. Remove from fire and move to empty place. Cool containers with water spray. Provide adequate ventilation.

Section 6 - Accidental Release Measures

Protective measures, protective equipment and emergency procedures:

Isolation pollution area, limit access. Wear personal protective equipment (See section 8 for information on personal protection equipment). Prohibit contacting or cross leakage. Avoid contact with skin and eyes. Avoid breathing vapors, mist or gas.

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Environmental protection measures:

Prevent leakage into the sewer, drainage system or soil. Prevent fire-fighting water from entering surface water or groundwater.

Methods and material for containment and cleaning up:

If available, immediately cut off source of leaked chemical products. Take up with absorbent material and place in container for disposal according to local/ national regulations (see section 13).

Precautions measures to prevent secondary hazards:

Avoid creating dust; avoid the leakage again when cleaning up.

Other information:

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

Handling and Disposal:

Operators must receive special training, and strictly abide by the procedures. Operation under adequate ventilation. Avoid breathing vapors, mist or gas. Avoid contact with eyes and skin. Operators should wear specified protective equipment.

Storage:

Store in cool, dry and well-ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. Avoid direct sunlight. Packing can use PE heavy-duty bag.

Section 8 - Exposure Controls and Personal Protection

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Permissible concentrations:

Occupational exposure limit:

Polyethylene dust - Total dust: PC-TWA: 5 mg/m³;

Engineering control method:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal protective equipment:

Respiratory protection: If ventilation is insufficient, wear suitable air respirator.

Eye protection: If the eyes may potentially come in contact with the product, then chemical safety goggles are necessary.

Skin and body protection: Wear appropriate protective working clothing and apron to prevent skin exposure.

Hand protection: Use protective gloves.

Other protection: Handle in accordance with good industrial hygiene and safety practice.

Section 9 - Physical and Chemical Properties

Appearance and status:	Off-white cylindrical particles
Odour:	Odourless and tasteless
pH value:	Not applicable.
Melting point:	130 - 140°C
Boiling point:	No data available.
Density:	1.85 - 2.0 g/cm ³
Vapour pressure:	No data available.
n-octanol/water partition coefficient:	No data available.
Flash point:	No data available.
Solubility:	Insoluble in water.
Flammability:	Not flammable.
Explosive properties:	Not explosive.

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Oxidising properties:

No oxidising properties.

Section 10 - Stability and Reactivity

Stability:

Stable under normal handling and storage condition.

Hazardous reactions:

No hazardous reactions known.

Conditions to be avoided:

Fire, flame, hot surfaces and strong heating, moist, incompatible substances.

Incompatible substances:

Strong oxides agents.

Hazardous decomposition products:

Hazardous combustion products: carbon oxides.

Section 11 - Toxicological Information

Acute toxicity:

Calcium carbonate: Acute oral toxicity - rat: LD₅₀ = 6450 mg/kg;

Polyethylene/Polyethylene wax: Acute oral toxicity - rat: LD₅₀ > 2000 mg/kg;

Stearic acid: Acute inhalation toxicity - mouse: LD₅₀ > 12000mg/m³/30min;

Acute oral toxicity - rat: LD₅₀ = 4600 mg/kg;

Acute dermal toxicity - rabbit: LD₅₀ > 5000 mg/kg;

Skin irritation or corrosion:

Not classified as skin irritant.

Eye irritation or corrosion:

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Not classified as eye irritant.

Respiratory or skin sensitisation:

Not classified as respiratory or skin sensitiser.

Carcinogenicity, Mutagenicity and Reproductive toxicity:

Not classified as CMR product.

Specific target organ system toxicity - Single exposure:

No information available.

Specific target organ system toxicity - repeated exposure:

No information available.

Aspiration hazards:

No information available.

Section 12 - Ecological Information

Ecological toxicity:

No information available.

Persistence and degradability:

Calcium carbonate:	Not applicable.
Polyethylene/Polyethylene wax:	Not readily biodegradable.
Stearic acid:	Readily biodegradable.

Bioaccumulative potential:

Calcium carbonate:	No bio-accumulation is to be expected.
Polyethylene/Polyethylene wax:	Bio-accumulation potential is to be expected.
Stearic acid:	Bio-accumulation potential is to be expected.

Mobility in soil:

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No information available.

Section 13 - Disposal Considerations

Waste disposal methods:

Discarded products: Firstly should consider the recovery or recycling as possible. Disposal must be made according to local and national regulations. It is recommended to be destroyed by incineration under supervise.

Contaminated packing: Clean with suitable cleaner. Return the empty containers to manufacturers or disposed in accordance with local and national regulations.

Waste disposal precautions:

Before disposal should refer to local and national regulations. Avoid polluting environment during the disposal process.

Section 14 - Transport Information

Land transport:

This product is not regulated as hazardous/dangerous goods for transportation.

Sea transport:

This product is not regulated as hazardous/dangerous goods for transportation.

Air transport:

This product is not regulated as hazardous/dangerous goods for transportation.

Other information:

Vehicles shall be equipped with corresponding fire-fighting equipment and leakage treatment equipment when transporting. Avoid leaking, collapsing, falling and damage. Avoid transporting mix with oxidant and edible chemicals. Prevent insoluble, drench, fire and heat source. Transportation vehicles should be thoroughly clearing when completion.

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Section 15 - Regulatory information

China Regulations:

The following laws/regulations/standards specify corresponding provisions on the safe use, storage, transportation, loading and unloading, classification and labelling of the chemicals:

Safety rules for classification, Precautionary labelling and Precautionary statements of chemicals (GB20576-2006 ~ GB20602-2006);

General rules for the classification and hazard communication of chemicals (GB 13690-2009);

«Inventory of Existing Chemical Substances in China»: Calcium carbonate, polyethylene/polyethylene wax, and stearic acid are listed in.

«Hazardous Chemical Inventory»: Calcium carbonate, polyethylene/polyethylene wax, and stearic acid are not listed in.

«List of Acute Toxic Chemicals»: Calcium carbonate, polyethylene/polyethylene wax, and stearic acid are not listed in.

«List of Dangerous Goods»: Calcium carbonate, polyethylene/polyethylene wax, and stearic acid are not listed in.

Other chemical regulation:

CAS No.	European Union (EINECS)	Japan (ENCS)	Canada (DSL/NDSL)	Australia (AICS)	Korea (ECL)
471-34-1	Listed	Listed	Listed	Listed	Listed
9002-88-4	Listed	Listed	Listed	Listed	Listed

Section 16 - Other information

Revision Information:

Date of this revision: 2011-6-10, the first new SDS.

This SDS complies with «Safety Data Sheet for Chemical Products - Content and Order of Sections» (GB/T16483-2008). Owing to the Nation has not yet issued GHS classification

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inventory, the classification of the product in this SDS complies with «Safety rules for classification, Precautionary labelling and Precautionary statements of chemicals » (GB20576-2006 ~ GB20602-2006). The information will be adjusted when the National chemical classification inventory is issued.

Training advice:

Provide adequate information, instruction and training for operators.

Key literature references:

HSDB: Hazardous Substances Data Bank.

ESIS: European chemical Substances Information System.

Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ENCS: Japanese Existing and New Chemical Substances.

DSL: Domestic Substances List, The Canadian chemical inventory.

AICS: The Australian Inventory of Chemical Substances.

ECL: Existing Chemicals List, the Korean chemical inventory.

Disclaimer to reader:

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

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