TCI (Shanghai) DEVELOPMENT CO., LTD.

Caffeic Acid

Revision number: 1

Revision date: 11/29/2010

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: **Product code:** Company: Address: **Responsible Department:** Telephone: Fax: e-mail: **Revision number:**

Caffeic Acid C0002 TCI (Shanghai) DEVELOPMENT CO., LTD. No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Sales Department +86-(0)21-67121386 +86-(0)21-67121385 sales@tcishanghai.com.cn 1

2. HAZARDS IDENTIFICATION

Classification of the GHS PHYSICAL HAZARDS HEALTH HAZARDS Skin corrosion/irritation Serious eye damage/eye irritation Carcinogenicity **ENVIRONMENTAL HAZARDS GHS** label elements Pictograms or hazard symbols



Signal word

Hazard statement	Causes skin irritation
	Causes serious eye irritation
	Suspected of causing cancer
Precautionary statements	
[Prevention]	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Wash hands thoroughly after handling.
	Wear protective gloves/eye protection/face protection.
[Response]	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
[]	if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
	IF ON SKIN: Gently wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
	Take off contaminated clothing and wash before reuse.
	IF exposed or concerned: Get medical advice/attention.
[Storage]	Store locked up.
[Disposal]	Dispose of contents/container through a waste management company authorized by
	the local government

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Component(s):	Caffeic Acid
Percent:	>98.0%(T)
CAS Number:	331-39-5

Not classified

Category 2 Category 2A Category 2 Not classified

Warning

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	3,4-Dihydroxycinnamic Acid
Chemical Formula:	$C_9H_8O_4$

4. F	IRST AID MEASURES	
	Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
	Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
	Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
	Ingestion:	Get medical advice/attention.Rinse mouth.
	Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air- tight goggles.
5. F	IRE-FIGHTING MEASURES	6
	Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
	Specific methods:	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective When extinguishing fire, be sure to wear personal protective equipment. equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should
emergency procedures:	be controlled around the leakage area by roping off, etc.
Environmental precautions	Prevent product from entering drains.
Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it.
containment and cleaning	Adhered or collected material should be promptly disposed of, in accordance with
up:	appropriate laws and regulations.

7. HANDLING AND STORAGE

Handling

Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.
Advice on safe handling:	Avoid all contact!
Storage	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
-	Store locked up.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Law is followed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath. **Personal protective equipment**

Respiratory protection:	n: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator etc. Use respirators approved under appropriate government standards and follo local and national regulations.	
Hand protection:	Impervious gloves.	
Eye protection:	Safety goggles. A face-shield, if the situation requires.	
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	crystal - powder
Color:	Very pale yellow - Pale yellow
Odor:	No data available
pH:	No data available
Melting point/freezing poin	t:No data available
Boiling Point/Range:	No data available
Flash Point:	No data available
Explosive limits	
Lower:	No data available
Upper:	No data available
Density:	No data available
Solubility:	Very soluble in : Alcohol
	Soluble in : Ethyl acetate
	Slightly soluble in: Water
	Very slightly soluble in: Chloroform Hexane
log Pow =	0.82

10. STABILITY AND REACTIVITY

Stability:	Stable under proper conditions.
Reactivity:	No special reactivity has been reported.
Incompartible materials:	oxidizing agents, strong bases
Hazardous Decomposition	Carbon monoxide, Carbon dioxide
Products:	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ipr-mus LD50:>721 mg/kg ipr-rat LDLo:1500 mg/kg
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	cyt-ham-ovr 200 mg/L
	mrc-smc 300 mg/L
Carcinogenicity:	orl-mus TDLo:1613 g/kg/96W-C
	orl-rat TDLo:728 g/kg/2Y-C
IARC =	Group 2B (Possibly carcinogenic to humans).
NTP =	No data available
Reproductive toxicity:	No data available
RTECS Number:	GD8950000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative	3.2
potential(BCF):	
Mobillity in soil	
log Pow:	0.82
Soil adsorption (Koc):	100
Henry's Law	1.4 x 10 ⁻¹¹
constant(PaM ³ /mol):	

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:Does not correspond to the classification standard of the United NationsUN-No:Not Listed

15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference compa	any name of written contents
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