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MATERIAL SAFETY DATA SHEET

Product Name: Dibutyltin Dibenzoate (solution)

Revision Date: Apr. 23, 2009

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Shanghai Research Institute of Chemical Industry Testing Centre
Shanghai Classification and Testing Centre of Dangerous
Chemicals for State Work Safety

NANTONG ADVANCE CHEMICALS CO., LTD

MATERIAL SAFETY DATA SHEET

Dibutyltin Dibenzoate (solution)

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Dibutyltin Dibenzoate (solution)**Company:** NANTONG ADVANCE CHEMICALS CO., LTD**Address:** Beixin Town, Qidong Yanjiang Fine Chemical Industrial Park, Nantong, Jiangsu, 226221, P. R. China**Fax:** 86-513-83886550**Emergency Phone:** 86-513-83201212**MSDS Number:** 09-132**MSDS Date:** Apr. 23, 2009

SECTION2 INFORMATION ON INGREDIENTS

Product name: Dibutyltin Dibenzoate (solution)

Ingredient	Concentration	CAS No.	EC No.	Hazard Label	EU Directive 67/548/EEC Annex I Index No.
Dibutyltin dibenzoate	~40%	/	/	T	/
2-butoxyethanol	~10%	111-76-2	203-905-0	Xn	603-014-00-0
Methyl isobutyl ketone	~50%	108-10-1	203-550-1	F; Xn	606-004-00-4

SECTION3 HAZARDS IDENTIFICATION

Hazards Identification: 3, 6.1 (sub.)**Emergency Overview:** Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes respiratory system and skin. Repeated exposure may cause skin dryness or cracking.

SECTION4 FIRST-AID MEASURES

Skin Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.**Inhalation Exposure:** If inhaled, remove to fresh air. If necessary, get medical attention.**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical powder, carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emits toxic fumes under fire conditions.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions. Forms explosive mixtures in air.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Stability: Stable under normal temperatures and pressures.

Procedure to be Followed in Case of Leak or Spill

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

Procedures of Personal Precautions:

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation.

Methods for cleaning up:

Mix with non-combustible material (eg. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition. Provide ventilation.

Toxicity Data:

SECTION 7 HANDLING AND STORAGE

Handling

Wear appropriate protective clothing and safety gloves. Avoid contact with eyes, skin and clothing. Avoid inhalation. Mechanical exhaust required. Electrostatic charges may be generated during pumping. Ensure electrical continuity by bonding all equipment. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents, strong bases, combustible materials and foods. No smoking at working site. Use nonsparking tools.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidizing agents, strong bases, combustible materials and foods.

SECTION 8 EXPOSURE CONTROL/PPE

Engineering Controls: Mechanical exhaust required. Safety shower and eye bath. Use nonsparking tools.

Personal Protective Equipment:

Respiratory: Government approved respirator.

Eye: Wear chemical safety goggles.

Clothing: Wear anti-electrostatic clothing.

Hand: Wear compatible chemical-resistant gloves.

Other Protect: No smoking, drinking and eating at working site. Wash thoroughly after handling.

Exposure Limits, RTECS:

Ingredient	Country	Source	Type	Value
2-butoxyethanol	USA	ACGIH	TWA	20ppm
Methyl isobutyl ketone	USA	ACGIH	STEL	75ppm
Methyl isobutyl ketone	USA	ACGIH	TWA	50ppm

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance and odor: Pale yellow transparent liquid, weak penetrating odor
Flash Point: 39°C (closed cup)
Solubility: Weakly soluble in water

SECTION10 STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Ignition sources, excess heat.
Materials to Avoid: Strong oxidizing agents, strong bases, combustible materials.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, tin oxides.

SECTION11 TOXICOLOGICAL INFORMATION

Toxicity Data:

2-butoxyethanol	Oral	Rat	LD ₅₀	470mg/kg;
	Skin	Rabbit	LD ₅₀	220mg/kg;
	Inhalation	Rat	LC ₅₀	450ppm/4H.
Methyl isobutyl ketone	Oral	Rat	LD ₅₀	2080mg/kg;
	Skin	Rabbit	LD ₅₀	>16g/kg;
	Inhalation	Rat	LC ₅₀	100g/m ³ .

Irritation Data: Irritating to eyes respiratory system and skin. Repeated exposure may cause skin dryness or cracking.

SECTION12 ECOLOGICAL INFORMATION

Ecotoxicity effects:

2-butoxyethanol

Toxicity to daphnia	EC ₅₀	Daphnia magna	1,815 mg/l(24 h)
Toxicity to fish	LC ₅₀	Lepomis macrochirus (Bluegill)	1,490 mg/l (96 h)

Methyl isobutyl ketone

Toxicity to daphnia	EC ₅₀	Daphnia magna	1,550.0 - 3,623.0 mg/l(24 h)
Toxicity to fish	LC ₅₀	Leuciscus idus	672.0 - 744.0 mg/l(48 h)
	LC ₅₀	Pimephales promelas (Fathead minnow)	496.0 - 593.0 mg/l(96 h)
Toxicity to Algae	EC ₅₀	Scenedesmus subspicatus	980.0 - 2,000.0 mg/l (48 h)

SECTION13 DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of substance:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

SECTION14 TRANSPORT INFORMATION

IATA/IMO

Proper Shipping Name: Flammable liquid, toxic, n.o.s.
Hazard Class: 3
UN Number: 1992
Packing Group: III
IMO EmS No.: F-E, S-D

ADR/RID

Proper Shipping Name: Flammable liquid, toxic, n.o.s.
Hazard Class: 3
UN Number: 1992
Packing Group: III

SECTION15 REGULATORY INFORMATION

EU Additional Classification

Symbol of Danger: F; T
Indication of Danger: Highly Flammable; Toxic.
R: 10 20/21/22 36/37/38 66
Risk Statements: Flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes respiratory system and skin. Repeated exposure may cause skin dryness or cracking.
S: 2 9 16 29 36/37/39 46
Safety Statement: Keep out of the reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition - no smoking. Do not empty into drains. Wear suitable protective clothing, gloves and eye/face protection. If swallowed, seek medical advice immediately and show this container or label.

SECTION16 OTHER INFORMATION

Date: Apr. 23, 2009

Department: Shanghai Research Institute of Chemical Industry Testing Center
Shanghai Classification and Testing Centre of Dangerous Chemical for State Work Safety
Tel(Fax): 8621-52815377/52800971/52807275/52811034

Revision: 0

Other Information

The MSDS is prepared in accordance with ISO 11014-1:1994.

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