



Material Safety Data Sheet

rong Mallinokrodt Baker, Inc. 222 Red School Lane Etrifipshurg, NJ 05865



241 bur Emergency Telephone: 606-369-2: 51

CHEMITREC: 1400-424-9300

Notional Response in Canada **CAMPUTED: 015-893-4666**

Outside U.S. and Canada Chestees 202 498 7616

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All non-emergency questions should be directed to Customar Service (1:600-582-2537) for assistance

-Cresolphthalein Complexone(tm)

SDS Number: C5508 --- Effective Date: 06/16/97

. Product Identification

Synonyms: o-Cresolphthalexon; Phthalein Purple; Metal Phthalein

CAS No.: 2411-89-4 Molecular Weight: 636.61

Chemical Formula: C32H32N2O12

Product Codes: F855

. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxy-3-methylphenyl)-	596-27-0	< 0.1%	No
o-Cresolphthalein Complexone(tm)	2411-89-4	90 - 100%	Yes

. Hazards Identification

Emergency Overview

WARNING! CAUSES IRRITATION. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. TARGET ORGAN(S): Eyes.

Potential Health Effects

nhalation:
None identified.

Ingestion:

None identified.

Skin Contact:

None identified.

Eye Contact:

None identified.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

In case of contact, flush skin with water.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

. Fire Fighting Measures

Fire:

Not expected to be a fire hazard.

Explosion:

None identified.

Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

. Accidental Release Measures

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

. Handling and Storage

Keep container tightly closed. Suitable for any general chemical storage area. Product must be refrigerated at 2 - 8C (36 - 46F). Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, *A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures:

There is insufficient data in the published literature to assign complete numerical SAF-T-DATA* ratings and

laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. Protective equipment for laboratory bench use should be chosen using professional judgment based on the size and type of reaction or test to be conducted and the available ventilation, with overriding consideration to minimize contact with the chemical.

. Physical and Chemical Properties

Appearance:

Light pink to tan Crystalline solid.

Odor:

No information found.

Solubility:

Negligible (<0.1%)

Specific Gravity:

No information found.

pH:

No information found.

% Volatiles by volume @ 21C (70F):

Boiling Point:

No information found.

Melting Point:

No information found.

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

Not applicable.

Evaporation Rate (BuAc=1):

No information found.

0. Stability and Reactivity

Stability:

table under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of nitrogen.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

No information found.

Conditions to Avoid:

No information found.

1. Toxicological Information

\Cancer Lists\			
Ingredient		Carcinogen Anticipated	IARC Category
o-Cresolphthalein Complexone(tm) (2411-89-4)	No	No	None
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxy-3-methylphenyl)- (596-27-0)	No	No	None

2. Ecological Information

Environmental Fate:

No information found.

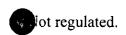
Environmental Toxicity:

No information found.

3. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

4. Transport Information



5 Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia
o-Cresolphthalein Complexone(tm) (2411-89-1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxy-3-methylphenyl)- (596-2)	-4)	Yes	Yes	ИО	
\Chemical Inventory Status - Part	2\				
Ingredient		Korea	_		Phil.
o-Cresolphthalein Complexone(tm) (2411-89- 1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxy-3-methylphenyl)- (596-2	-4)	Yes No	Yes	No	No
\Federal, State & International Re					 A 313
Ingredient	RQ		Li	st Che	mical Catg
o-Cresolphthalein Complexone(tm) (2411-89-4)					
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxy-3-methylphenyl)- (596-27-0)	No	No	Ио		No
\Federal, State & International Re	egulati	ons -		2\ T	
Ingredient	CERCL	A	261.3	3 8	(d)
o-Cresolphthalein Complexone(tm) (2411-89-4)	No	_	No	 N	0
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxy-3-methylphenyl)- (596-27-0)	No		No	N	0
emical Weapons Convention: No TSCA 1: RA 311/312: Acute: No Chronic: Yes activity: No (Mixture / Solid)					

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.



Label Hazard Warning:

WARNING! CAUSES IRRITATION. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. TARGET ORGAN(S): Eyes.

Label Precautions:

No SAF-T-DATA Ratings have been developed for this product. Read and follow all warnings, precautions, instructions and other safety and handling information on the label and MSDS. Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Laboratory Reagent.

Revision Information:

Mixture. New 16 section MSDS format, all sections have been revised.

Disclaimer:

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