



1,4-Phenylene-bis-maleimide: sc-208795

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name: 1,4-Phenylene-bis-maleimide
 Catalog Number: sc-208795
 Supplier: Santa Cruz Biotechnology, Inc.
 2145 Delaware Ave.
 Santa Cruz, California 95060
 800.457.3801 or 831.457.3800
 Emergency: ChemWatch
 Within the US & Canada: 877-715-9305
 Outside the US & Canada: +800 2436 2255
 (1-800-CHEMCALL) or call +613 9573 3112

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>
1,4-Phenylene-bis-maleimide	3278-31-7	No
Synonyms 1,4-PDM; N,N'-P-PHENYLENEDIMALEIMIDE; N,N'-1,4-PHENYLENEBISMALEIMIDE; N,N'-1,4-PHENYLENEDIMALEIMIDE; N,N'-1,4-BISMALEIMIDOBENZENE; n,n'-4-phenylenedimaleimide; 1,4-DIMALEIMIDOBENZENE; 1,4-PHENYLENE-BIS-MALEIMIDE; 1,4-PDM; AKOS MSC-0043; N,N'-(1,4-Phenylene)dimaleinimide; 1,4-Phenylenebismaleinimide; 1,4-Phenylene dimaleimide; 1,4-Dimaleimido-benzene, N,N'-μ-(p-Phenylene)dimaleimide; 1,1'-(1,4-Phenylene)bis(1H-pyrrole-2,5-dione); N,N'-(p-Phenylene)bis(maleimide); N,N'-p-Bismaleimidebenzene; p-Phenylenedimaleimide; N,N'-p-Phenylenedimaleimide,98%;		
Formula:	C ₁₄ H ₈ N ₂ O ₄	
Molecular Weight:	268.23	

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful.
 Harmful if swallowed.

HMIS RATING

HEALTH: 1
 FLAMMABILITY: 0
 REACTIVITY: 0

NFPA RATING

HEALTH: 1
 FLAMMABILITY: 0
 REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

SECTION 4 - FIRST AID MEASURES

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

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

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. 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. Call a physician.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
 Specific Hazard(s): Emits toxic fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.
 Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing.
 Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed. Store at room temperature.

SECTION 8 - EXPOSURE CONTROLS / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
 Hand: Compatible chemical-resistant gloves.
 Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

FormSolid Powder
 pHN/A
 BP/BP RangeN/A
 MP/MP Range> 300° C
 Freezing PointN/A
 Vapor PressureN/A
 Vapor DensityN/A
 Saturated Vapor Conc.N/A

continued...

Bulk DensityN/A
Odor ThresholdN/A
Volatile%N/A
VOC ContentN/A
Water ContentN/A
Solvent ContentN/A
Evaporation RateN/A
ViscosityN/A
Surface TensionN/A
Partition CoefficientN/A
Decomposition Temp.N/A
Flash PointN/A
Explosion LimitsN/A
FlammabilityN/A
Autoignition TempN/A
Refractive IndexN/A
Optical RotationN/A
Miscellaneous DataN/A
SolubilityN/A
N/A = not available

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,
Nitrogen oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous
membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties
have not been thoroughly investigated.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this materi-
al. Dissolve or mix the material with a combustible solvent and burn in a chemi-
cal incinerator equipped with an afterburner and scrubber. Observe all federal,
state, and local environmental regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous
for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

SECTION 15 - REGULATORY INFORMATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 22

Risk Statements: Harmful if swallowed.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful if swallowed.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the
hazard criteria of the CPR, and the MSDS contains all the information required by
the CPR.

DSL: No

NDSL: No

SECTION 16 - OTHER INFORMATION

*The above information is believed to be correct but does not purport to be com-
plete and should be used only as a guide. The burden of safe use of this material
rests entirely with the user.*

2/2/2011