

Material Safety Data Sheet

PHENOLPHTHALEIN

Infosafe No. ACODX **Issue Date** May 2001 **Status** ISSUED by APSSC

Not classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name APS, A Division of Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)
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 119 Carbine Road
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IDENTIFICATION

Product Code LC 00000368
Product Name PHENOLPHTHALEIN
Proper Shipping Name None Allocated

Other Names	Name	Product Code
	PHENOLPHTHALEIN	UL 00002656

UN Number None Allocated
DG Class None Allocated
Packing Group None Allocated
Hazchem Code None Allocated
Poisons Schedule Not Scheduled
Product Use Acid-base (pH) indicator useful in the pH range 8.2 (colourless) to 10 (violet-red); laxative (cathartic) present in many over-the-counter products; analytical reagent.

Physical Data

Appearance White or yellowish-white crystals; odourless
Melting Point 258-262 deg C (497-504 deg F)

Boiling Point	Decomposes before boiling
Vapour Pressure	Extremely low
Specific Gravity	(SG) 1.299 (water=1)
Flash Point	Not applicable (does not form vapour)
Flamm. Limit	
LEL	No Data
Explosion Data	(LEL) Not available - (UEL) Not available
Solubility in Water	Practically insoluble (40 mg/100 mL at 20 deg C).

Other Properties

Autoignition Temp.	Not available
Vapour Density	Not applicable
pH Value	Not available
Solubility in Organic Solvents	Very soluble in acetone; soluble in toluene; moderately soluble in alcohol (8.5 g/100 mL), and ether; slightly soluble in chloroform; insoluble in petroleum ether.
Stability	Stable under normal conditions.
Haz.	
Polymerization	Will not occur.
Materials to Avoid	Strong oxidising agents, strong acids and strong bases.
Formula	MOLECULAR FORMULA C20-H14-O4 CHEMICAL FAMILY Dye
Molecular Weight	318.31

Ingredients

Ingredients	Name	CAS	Proportion
	Phenolphthalein	77-09-8	100 %
Other Information	Commercially available as the pure solid or as solutions in alcohol		

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	Phenolphthalein has been widely used as a laxative for many years. The usual dose for an adult is 30 to 195 mg although doses of several grams may be swallowed without serious symptoms. In most people, ingested phenolphthalein can cause diarrhea but no other problems. The laxative effect normally occurs within 4 to 8 hours of ingestion.
Acute - Eye	No specific information is available. Dusts or mists coming into contact with the eyes may be irritating.
Acute - Skin	No specific information is available. Probably not absorbed through the skin. Probably only mildly irritating or non-irritating.
Acute - Inhaled Hazards	No specific information is available. Inhaled dusts or mists may be irritating to the nose and throat.
Identification	

Chronic HEALTH EFFECTS INGESTION: A rare but potentially serious allergic reaction may occur from ingestion of phenolphthalein in laxative products. The reaction primarily affects the skin, causing swelling, reddening and itching. Some deaths have been attributed to allergy to the drug (2,3,4). These effects are not relevant to occupational exposure to phenolphthalein. CARCINOGENICITY No data available. Not classed as a category I, II or III Carcinogen by Worksafe Aust. TERATOGENICITY AND EMBRYOTOXICITY No data available MUTAGENICITY No data available POTENTIAL FOR ACCUMULATION Does not accumulate. Normally cleared from body within a day or two.

First Aid

Swallowed Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 mL (8 to 10 oz.) of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical advice immediately.

Eye Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. If irritation persists, obtain medical advice immediately.

Skin Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with water and non-abrasive soap. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Inhaled If irritation occurs, remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice immediately. Gently blot or brush away excess solid material quickly.

First Aid Facilities Eye wash and normal washroom facilities.

Other Information Consult a physician and/or the nearest Poison Control Centre for all exposures except minor instances of inhalation or skin contact. All first aid procedures should be periodically reviewed by a physician familiar with the material and its conditions of use in the workplace.

Advice to Doctor

Advice to Doctor Treat symptomatically.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC).

Eng. Controls Engineering control methods to reduce hazardous exposures are preferred. Use local exhaust ventilation to control airborne dust. Supply sufficient replacement air to make up for air removed by exhaust systems.

Personal Protection

Protective Equip. RESPIRATORY PROTECTION If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment. Have appropriate equipment available for use in emergencies such as spills or fire.

RESPIRATORY PROTECT. GUIDELINES No specific guidelines are available. An approved respirator suitable for protection from dusts and mists may be adequate. The respirator use limitations specified by the approving agency and the manufacturer must be observed.

EYE/FACE PROTECTION No specific requirement, but it is good practice to wear chemical safety glasses.

SKIN PROTECTION No specific requirement, but it is good practice to prevent skin contact.

RESIST. FOR PROTECTIVE CLOTHING No specific information is available. Most materials commonly used in protective clothing can probably provide adequate protection.

PERSONAL PROTECTION COMMENTS Wash hands thoroughly after handling this material. Maintain good housekeeping.

Flammability

Fire Hazards Not flammable.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Store in a cool, dry, well-ventilated area, out of direct sunlight and away from incompatible materials. Store in suitable, labelled containers, kept closed and protected from damage.

Transport Not classified as a Dangerous Good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Handling Use dust-tight containers. Prevent accumulations of dust. Avoid generating dust. Label containers. Keep containers closed when not in use. Whenever feasible, use as a solution in water or alcohol.

Proper Shipping Name None Allocated

Spills and Disposal

Spills & Disposal PRECAUTIONS Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear adequate personal protective equipment. Ventilate area.

CLEANUP Small spills: Vacuum or sweep up spilled solid; minimize generation of dust. Soak up spilled solutions with absorbent material. Put material in suitable, covered, labelled container. Flush area with soapy water or alcohol solution.

DISPOSAL Review federal, state and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

Fire/Explosion Hazard

Fire/Explos. Hazard This material can probably burn if strongly heated. There may be a risk of fire if fine airborne dust contacts a source of ignition.

Hazardous Combustion Products Carbon monoxide, carbon dioxide, probably phenols.

Fire Fighting Procedures Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or

isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Extinguishing

Media Water, carbon dioxide, dry chemical

Hazchem

Code None Allocated

OTHER INFORMATION

Toxicology ANIMAL TOXICITY DATA Phenolphthalein has been widely studied in laboratory animals to determine its safety and mechanism of action as a laxative. These studies indicate a low-to-moderate toxicity.
REPRODUCTIVE TOXICITY: Phenolphthalein was not teratogenic in one study in which it was fed to mice over 3 generations (HSDB).
Intraperitoneal LDLo(rat): 500 mg/kg

Information on Ecological

Effects No data supplied.

Risk**Statement****References**

(1) Goodman and Gilman's the pharmacological basis of therapeutics. 7th ed. MacMillan Publishing. p. 999-1000 (2) Gosselin, R.E., et al. Clinical toxicology of commercial products. 5th ed. Williams & Wilkins, 1984. p. II-1283 (3) Martindale : The extra pharmacopoeia. 28th ed. The Pharmaceutical Press, 1982. p. 1365-1366 (4) Remington's pharmaceutical sciences. 16th ed. Mack Publishing, 1980. p. 743

Empirical Formula & Structural Formula

MOLECULAR FORMULA C20-H14-O4
CHEMICAL FAMILY Dye

CONTACT POINT

Contact

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IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

End of MSDS
