Podonics Dispence Phenol Blue 89%
Materials Safety Data Sheet

1. Product Information		
Product Name:	Podonics Dispence Phenol Blue 89%	
Manufactured by:	Podonics Ltd	
Product Code: PDP89B-12 / PDP89B-30	Address:	70 Bounces Road. London. N9 8JS. (UK)
	Website:	http://podonics.com/
	Phone:	

2. Hazard Identification

GHS Classification:

Section 2.1 Label Elements

Hazard Pictogram

Signal Word:
Danger
Hazard Statements:
H227 Combustible liquid.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention:
P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P260 Do not breathe dust / fume / gas / mist / vapours / spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P281 Use personal protective equipment as required.
Response:
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P361 Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before re-use.
P321 Specific treatment (see First Aid Measures on Safety Data Sheet). P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P370+P378 In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish.
Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Disposal:
P501 Dispose of contents/container in accordance with the local waste authority requirements.
Other:
Poisons Schedule (SUSMP): S6 Poison.

3. Composition / Information on Ingredients

Chemical Name	CAS-No	Weight %	REACH No.
Phenol USP Liquid	108-95-2	85-100%	01-2119471329-32-XXXX
Water	7732-18-5	0-15%	

E133 FD&C Blue No.1 Powder	3844-45-9	0.025%	

4. First Aid Measures	
General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to a doctor or hospital quickly.
Skin Contact	Wash with plenty of soap and water. Remove contaminated clothing immediately. Contact doctor or hospital immediately.
Inhalation	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.
Ingestion	Immediately rinse mouth with water and spit out. If swallowed, do NOT induce vomiting. Give a glass of water. Get to a doctor or hospital quickly.

5. Fire-Fighting Measures	
Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder).
Unsuitable Extinguishing Media	Do Not Use Water Jet
Specific Hazards arising from chemical or mixture	On burning will emit toxic fumes, including those of oxides of carbon. Not combustible.
Explosion Data	n/a
Protective Equipment and Precautions for Firefighters	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour.

6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Wear respiratory protection. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and Materials for contaminant and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Keep in suitable, closed containers for disposal.

7. Handling and Storage	
Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Keep out of reach of children.
Storage	Store in a dark area. Store in a well-ventilated area. Store away from foodstuffs. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.
Incompatible Products	Incompatible with some synthetic materials.

8. Exposure Controls / Personal Protection	
Exposure controls	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Biological Monitoring	No Special Requirements

Engineering Controls	Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered, and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.
Personal Protective Eye & Face Protection	Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties (Phenol)

Physical State	Odour	Appearance	pH	Melting Point / Range	Boiling Point
Liquid	Distinctive, Strong Acidic	Colourless to Yellowish or Pinkish	6	40-42°C	182°C @1013 hPa
Flash Point	Flammability Limits	Vapour Pressure	Specific Gravity	Water Solubility	Flammable Properties
79°C	1.36 - 10 vol% in air (phenol)	0.047 kPa (phenol)	1.06 @25°C	Soluble in cold water	No data available

10. Stability and Reactivity

Reactivity	Explosive with air in a vaporous/gaseous state when heated.
Chemical Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of Hazardous Reactions	React exothermically with alkalis. Hydrolysis produces hydrogen chloride
Hazardous Polymerization	None known.
Conditions to Avoid	Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to direct sunlight.
Incompatible Materials	Incompatible with some synthetic materials.
Hazardous Decomposition Products	Oxides of carbon.

11. Toxicological Information

Acute Toxicity	No LD50 data available for the product. However, for the major constituent: Oral LD50 (rat): 375 mg/kg / Dermal LD50 (rat): 670 mg/kg
Inhalation	Vapour and processing fumes may cause irritation to mucous membranes of the respiratory tract, headache and nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.
Eye Contact	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
Skin Contact	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. Component/s of this material can be absorbed through the skin with resultant toxic effects.

Ingestion	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. Collapse and possible death may occur.	
Chemical Name	LD50 Oral	
Ferric Chloride	375 mg/kg	
Delayed and immediate effects and also chronic effects from short and long term exposure		
Sensitization	Not a skin sensitiser (human). Not a skin sensitiser (guinea pig).	
Carcinogenicity	This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 3 agent. The agent is not classifiable as to its carcinogenicity to humans.	
Chronic Toxicity	Available evidence from animal studies indicate that repeated or prolonged exposure to this material could result in effects on the central nervous system, kidneys, liver, pancreas, and spleen.	
Target Organ Effects	Suspected of causing genetic defects.	
12. Ecological Information		
Ecotoxicity	Harmful to aquatic life. Harmful to aquatic life with long lasting effects	
Persistence and Degradability	The material is biodegradable	
Bioaccumulation	No data available	
Other Adverse Effects	Avoid release to the environment	
13. Disposal Consideration		
Waste Disposal Methods	Dispose of in accordance with federal, state, and local regulations Do Not dispose through sewerage systems, drains and waterways.	
Contaminated Packaging	Do not re-use empty containers. Dispose of in accordance with federal, state, and local regulations	

14. Transport Information	
Proper Shipping / Technical Name	PHENOL SOLUTION (Phenol)
Transport Hazard Class(es)	6.1
UN Number / Packing Group	2821 / II
Environmental Hazards for Transport Purposes	Marine Pollutant
Special Precautions for User	Classification of the chemical: Flammable liquids - Category 4 Acute Oral Toxicity - Category 3 Acute Dermal Toxicity - Category 3 Acute Inhalation Toxicity - Category 3 Skin Corrosion - Sub-category 1B Eye Damage - Category 1 Mutagenicity - Category 2 Specific target organ toxicity (repeated exposure) - Category 2
Hazchem / Emergency Action Code	2X
15. Regulatory Information	
EU Legislation	The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulations (EC) No 1907/2006

16. Other Information	
Poisons Schedule	S6 Poison.

Regulations	This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered to be dependable and is accurate to the best of the Company's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. Podonics Ltd cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product. Relevant phrases H227 Combustible liquid. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure.

General Disclaimer

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. END OF SAFETY DATA SHEET