



UNITECH SCIENTIFIC LLC

TOTAL PHENOL UniFlex Reagent SDS PHE-F

SAFETY DATA SHEET (HCS - 29 CFR 1910.1200(g))

1. CHEMICAL IDENTIFICATION and COMPANY CONTACT INFORMATION

Product trade name: Total Phenol UniFlex-Reagent	Supplier: Unitech Scientific LLC
Product No. : PHEN-F	12026 Centralia Rd, Ste H
Recommended Use: Food analysis	Hawaiian Gardens, CA 90716, USA
Restrictions on Use: N/A	
Date of Issue: 11-2008	Information, Operations: 562 924-5150
Date of Revision: 01 Aug 2015	Information in case of Emergency: 562 924-5150

2. HAZARD IDENTIFICATION

Emergency Overview:

Toxic

Toxic by inhalation and if swallowed. Causes burns. May cause harm to unborn child.

Target Orga(s): Blood. Nerves. Central Nervous System

HMIS Rating

Health: 3* Flammability: 0 Reactivity: 0

NFPA Rating

Health: 3* Flammability: 0 Reactivity: 0

*Additional chronic hazards present. For additional information on toxicity, please refer to Section 11.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product described is a pure substance: no

Chemical Characterization: As below

(Dangerous) Components:

F-C Reagent

SARA 313

Lithium Sulfate	CAS# 10377-48-7	15%	
Na Tungstate DiHydrate	10213-10-2	10%	
Hydrochloric Acid >25%	7647-01-0	10%	No
Phosphoric Acid, 85 wt% Soln	none	5%	Yes
Molybdic Acid Na Dihydrate	10102-40-6	2.5%	No

Carbonate Solution Contains no risk components

Galic Acid Std Designation: Sodium azide Content<0.1% Kb 1: T+ Kb 2: N Kb 3: N/A

4. FIRST AID MEASURES

Oral Exposure If swallowed, washout mouth with water provided person is conscious. Call a physical immediately. Do not induce vomiting

If inhaled: Remove to fresh air; if not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of skin contact: Flush with copious amount of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician

In case of contact with eyes: Flush with copious amount of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician

5. FIRE FIGHTING

Extinguishing media: Water, CO₂, foam, powder

Protective Equipment: Wear self-contained apparatus and protective dlothing to prevent skin and eye contact

Specific Hazard: Emits toxic fumes under fire conditions

6. SPILLAGE, ACCIDENTAL RELEASE

Personal precautions: Avoid swallowing; do not store together with food

Environmental precautions: Avoid release into sewers

Procedures for clean-up/absorption: Sweep up with cellulose and hold for waste disposal

7. HANDLING AND STORAGE

Handling: Evacuate Area

Personal Precautions: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves

Clean-up Method: Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Storage: Dry. At +2°C to +10° C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: For handling Assay Quantities, wear laboratory gloves and Chemical safety goggles. For handling production quantities, use only in a chemical fume hood. Safety shower and eye bath. Wash hands after finishing work.

Personal Protecive Equipment (for production quantities): Government approved respirator, compatible chemical-resistant gloves, chemical safety goggles and/or faceshield (8-inches minimum). Wash hands after finishing work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	F/C Reagent - Clear, Yellow liquid Carbonate Solution and Standard – Clear, colorless aqueous solutions (Liquids)
Odor:	no data available
pH:	N/A
Boiling point/-range,	Vapor pressure, Relative density: not determined
Flammability:	not flammable
Explosive Properties:	not explosive
Solubility in water:	water soluble

10. STABILITY AND REACTIVITY

Stability	Stable
Materials to Avoid	Strong Oxidizing Agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide
Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Routes of Exposure	Skin Contact, causes burns. Skin Absorption, may be harmful if absorbed. Eye Contact, causes burns, Inhalation, toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.. Infestion, toxic if swallowed.
Target Organs or Systems	Liver, Blood, Nerves, Bone Marrow
Signs, Symptoms of Exposure	Inhalation may result in spasm, inflammation and edema of larynx and bronchi, chemical pneumonitis. Exposure symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and cyanosis. Chemical and physical and toxicological properties have not been thoroughly investigated.
RTECS Number	N/A
Chronic Exposure – Teratogen	May cause congenital malformation in the fetus

12. ECOLOGICAL INFORMATION

Ecotoxicological effects:	No data available
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13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service for disposal of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

DOT:	Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s.
	Un#	3264
	Class	8
	Packing Group	II
	Hazard Label	Corrosive
	PIH	not PIH
IATA:	Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s.
	Un#	3264
	Class	8
	Packing Group	II

15. REGULATORY INFORMATION

EU Additional Classification	
Symbol of Danger:	Xi
Indication of Danger	Irritant
Risk Statements	R: 36/38 Irritating to eyes and skin
Safety Statements	S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

US Classification and Label Text

Indication of Danger	Toxic
Risk Statements	Toxic by inhalation and if swallowed. Causes burns. May harm the unborn child
Safety Statements	In case of eye contact, rinse immediately with plenty of water; seek medical advice

United States Regulatory Information: SARA Listed (YES); contains a component that is subject to SARA 313 reporting requirements.

Canadian Regulatory Information: WHMIS CLASSIFICATION: This substance 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-

16. OTHER INFORMATION

For R&D use only. Not for drug, household, or other use.

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