



Issuing Date 14-Jul-2009

Revision Date 01-Aug-2011

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Phenol Saturated #2
Product Code(s) 0981
Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Company
AMRESKO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-448-4442
E-mail Address info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Corrosion/Irritation 1B Serious Eye Damage/Irritant 1 Germ Cell Mutagenicity 2 Specific Target Organ Toxicity (single) 2 Acute Toxicity Oral 4 Acute Toxicity Dermal 3 Acute Toxicity Inhalation 3 Flammable Liquid 4

Signal Word Danger



Hazard Statements H301 - Toxic if swallowed H311 - Toxic in contact with skin H331 - Toxic if inhaled
H314 - Causes severe skin burns and eye damage H341 - Suspected of causing genetic defects H371 - May cause damage to organs (acute) H227 - Combustible liquid

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P309 + P311 - If exposed or you feel unwell: Call a POISON CENTRE or doctor/physician P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Phenol, pure	EEC No. 203-632-7	Not available	108-95-2	60-70	Muta.Cat.3;R68 T;R23/24/25 Xn;R48/20/21/22 C;R34

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Skin Contact For severe burns, immediate medical attention is required. Remove contaminated clothing/shoes immediately. Blot from skin to avoid further spread. Rapid decontamination is critical. Immediately wash off with plenty of water, then with polyethylene glycol (PEG) solution and with plenty of water. Apply PEG/EtOH solution liberally to affected area. Leave for 15-30 seconds, then wash with water. Continue cycle of PEG/EtOH solution - water for at least 15 minutes. (PEG/EtOH solution consists of 2 parts polyethylene glycol 400 to 1 part ethanol. For external use only.) Wash off with soap and water. Obtain medical attention. Wash contaminated clothing before reuse.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen

Ingestion Immediate medical attention is required. Never give anything by mouth to an unconscious person.

Notes to Physician Treat symptomatically

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

5. FIRE-FIGHTING MEASURES

Flammable Properties Combustible.

Flash Point 79 °C

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Hazardous Combustion Products Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact Not sensitive
Sensitivity to Static Discharge Not sensitive

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Protect from light.

Storage Keep containers tightly closed in a cool, well-ventilated place. Protect from light.

Incompatible Products Strong oxidizing agents. Strong acids. Strong bases. Protect from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phenol, pure 108-95-2	TWA: 5 ppm		IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m ³ TWA: 19 mg/m ³ TWA: 5 ppm

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles
Skin and Body Protection Wear protective gloves/clothing
Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear,colorless
Odor	Phenolic Medicinal sweetish odor
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Liquid
pH	No data available
Flash Point	79 °C
Flammable Properties	Combustible.
Autoignition Temperature	715 °C
Boiling Point/Range	182 °C
Melting Point/Range	No data available
Flammability Limits in Air	Upper 1.3 Lower 8.6
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
MMHG @ 37.8 C	No data available
Vapor Density	No data available
Specific Gravity	No data available
Density	3.24
Solubility	No information available
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizing agents. Strong acids. Strong bases. Protect from light.
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Corrosive, causes burns. Toxic by inhalation, in contact with skin and if swallowed . May cause damage to organs.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol, pure	317 mg/kg (Rat)	525 mg/kg (Rat) 630 mg/kg (Rabbit)	316 mg/m ³ (Rat) 4 h

Chronic Toxicity

Chronic Toxicity Suspected mutagen. Avoid repeated exposure.

Target Organ Effects Liver, Kidneys, Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Phenol, pure	EC50 = 150 mg/L 96 h	LC50 5 - 12 mg/L Oncorhynchus mykiss 96 h LC50= 23.88 mg/L Lepomis macrochirus 96 h LC50= 24 mg/L Pimephales promelas 96 h LC50= 27.8 mg/L Brachydanio rerio 96 h LC50= 40 mg/L Poecilia reticulata 96 h LC50= 8.9 mg/L Oncorhynchus mykiss 96 h	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	LC50 = 13 mg/L 48 h EC50 = 23.0 mg/L 48 h

Chemical Name	Log Pow
Phenol, pure	= 1.47

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA

UN-No 2821
 Proper Shipping Name Phenol Solution
 Hazard Class 6.1
 Packing Group II

DOT

Proper Shipping Name Phenol Solution
 Hazard Class 6.1
 UN-No 2821
 Packing Group II

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Phenol, pure	>=>=0.1 % weight	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Phenol, pure 108-95-2 (60-70)	Not applicable	Not applicable	97-1-332, 5 % or more in mixtures	Not applicable	>= 1.0 %

International Inventories

TSCA Complies
 EINECS/ELINCS Complies
 ENCS Does not Comply
 IECSC Does not Comply
 KECL Does not Comply
 PICCS Complies
 AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenol, pure	108-95-2	60-70	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phenol, pure 108-95-2 (60-70)				X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Phenol, pure	108-95-2	60-70	Present	Group III		

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Phenol, pure		1000 lb

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Phenol, pure		Mexico: TWA= 19 mg/m ³ Mexico: TWA= 5 ppm Mexico: STEL= 38 mg/m ³ Mexico: STEL= 10 ppm

Canada

WHMIS Hazard Class

E Corrosive material
D1A Very toxic materials
D2B Toxic materials
B2 Flammable liquid



16. OTHER INFORMATION

Issuing Date 14-Jul-2009

Revision Date 01-Aug-2011

Revision Note
No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS