

# Safety Data Sheet

AutoGen, Inc. 84 October Hill Rd. Holliston, MA 01746 774.233.3000

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Emergency Telephone Number: 800.633.8253 (USA & Canada) 801.629.0667 International

Agent: PERS

## Section 1 – Product and Company Information

Product Name: Deproteinizing Solution B Product Number: TDR3 or ag00312-TDR3

Company: AutoGen, Inc.

Address: 84 October Hill Rd.

Holliston, MA 01746

Phone: 774.233.3000

Web: <u>www.autogen.com</u>

#### Section 2 - Hazards Identification

 Chemical name
 CAS #

 Phenol
 108-95-2

 Chloroform
 67-66-3

 Isoamyl alcohol
 123-51-3

 Acetic acid
 64-19-7

 Potassium acetate
 127-08-2

Water

Pictogram:











## Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Specific target organ toxicity - repeated exposure, Oral (Category 1), Liver, Kidney, H372 Short-term (acute) aquatic hazard (Category 3), H402

Signal Word: Danger



## Section 3 - Hazards Identification

Component	CAS-NO	Weight by Percent
Phenol	108-95-2	9
Chloroform	67-66-3	13
Isoamyl alcohol	123-51-3	<1
Acetic acid	64-19-7	28
Potassium acetate	127-08-2	16
Water	7732-18-5	33

## **DANGEROUS COMPONENTS:**

<u>UN Number</u> <u>Chemical</u> <u>Class</u>

2821 Phenol (solution) 6.1, Toxic substances 1888 Chloroform 6.1, Toxic substances

#### **EMERGENCY OVERVIEW**

WARNING!

HARMFUL IF INHALED OR SWALLOWED.

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LIVER,

HEART, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

SUSPECT CANCER HAZARD.

MAY CAUSE CANCER.

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Do not ingest. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly afterhandling. Risk of cancer depends on duration and level of exposure.

## **ROUTES OF ENTRY**

Dermal contact. Eye contact. Inhalation. Ingestion.

## POTENTIAL ACUTE HEALTH AFFECT

Eyes: Irritating to eyes. Skin: Irritating to skin.

Inhalation: Toxic by inhalation. Irritating to respiratory system.

Ingestion: Toxic if swallowed.

Carcinogenic effects: May cause cancer. Risk of cancer depends on duration and

level of exposure.



Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity: No known significant effects or critical hazards. Medical conditions aggravated by over-exposure: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

#### NFPA RATING (0-4)

Flammability 0 Health 2 Instability 0

#### Section 4- First Aid Measures

#### GENERAL INFORMATION

Immediately remove any clothing soiled by the substance .Wash affected area with copious amounts of water for at least 15 minutes and then soap and water. Speed in removing material from skin is extremely important. Use safety shower. Call physician let them know you have been exposed to phenol - a very corrosive and caustic solution.

#### EYE CONTACT:

Rinse opened eye for at least 15 minutes under running water. Then consult at a physician.

#### SKIN CONTACT:

Immediately wash with water and soap and rinse thoroughly. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Call physician immediately.

#### INHALATION:

Supply fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call physician immediately.

#### **SWALLOWING**

If conscious, drink water and induce vomiting immediately as directed by medical personal. Never give an unconscious person anything to ingest.

#### PROTECTION OF FIRST-AIDERS:

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## Section 5- Fire Fighting Measures

FLAMMABILITY OF THE PRODUCT No specific hazard



## SUITABLE EXTINGUISHING AGENTS:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

## Section 6 – Accidental Release Measures

## PERSON-RELATED SAFETY PRECAUTIONS:

Ensure adequate ventilation.

#### MEASURES FOR ENVIRONMENTAL PROTECTION:

Do not allow to enter sewers/surface or ground water.

## MEASURES FOR CLEANING/COLLECTING:

Adsorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

## Section 7 – Handling and Storage

#### HANDLING:

Keep container closed. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Do not ingest. Avoid breathing vapor or mist. Wash thoroughly after handling.

### STORAGE:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8 – Exposure controls/Personal Protection



COMPONENTS WITH LIMIT VALUES THAN REQUIRING MONITORING AT THE WORK SPACE:

CAS NO. DESIGNATION OF MATERIALS % TYPE VALUE

108-95-2 phenol

ACGIH TLV 19mg/m3, 5 ppm NIOSH REL Short term value: C 60 mg/m3, C 15.6 ppm OSHA PEL 19 mg/m3, 5 ppm

67-66-3 Chloroform ACGIH TWA: 49 mg/m3

OSHA PEL (United States, 8/1997). CEIL: 240 mg/m3 Form: All forms CEIL: 50 ppm Form: All forms

OSHA PEL 1989 (United States, 3/1989).

TWA: 9.78 mg/m3 8 hour/hours. Form: All forms TWA: 2 ppm 8 hour/hours. Form: All forms

### WORK SPACE:

Control the emission of the substance at it source. A system of local exhaust is recommended when handling at in house work space.

#### PROTECTION MATERIALS

Use chemical safety goggles, protective gloves, protective boots or masks for organic gasses.

### PERSONAL PROTECTION

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: splash goggles

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Body: Recommended: Lab coat.

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### HYGIENE MEASURES

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



## Section 9 – Physical and Chemical Properties

Odor: have a pungent odor.

Color: slightly yellow.

#### APPEARANCE:

Physical State and Appearance: Liquid. (slightly yellow)

Boiling/Condensation Point: Not determine Melting/Freezing Point: Not determine

## Section 10 – Stability and Reactivity

## STABILITY/REACTIVITY

Stable, Light sensitive.

## INCOMPATIBILITY WITH VARIOUS SUBSTANCE

Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis, calcium hypochlorite, magnesium, lead and zinc..

## HAZARDOUS POLYMERIZATION

Will not occur.

## Section 11 - Toxicological Information

#### CAS NO. DESIGNATION OF MATERIALS:

108-95-2 Phenol

Acute toxicity: Oral (mouse) LD50, 300 mg/kg

Oral (rat) LD50, 414 mg/kg

Caustic effect on skin, mucous membranes and eye.

67-66-3 Chloroform

Acute toxicity: Oral (mouse) LD50, 36mg/kg

Oral (rat) LD50, 695 mg/kg

## Section 12 – Ecological Information

## HAZARDOUS FOR WATER:

Do not allow product to reach groundwater, water course or sewage system TOXICITY TO FISH:

Toxic for water living.

#### CAS NO. DESIGNATION OF MATERIALS:

108-95-2 Phenol LD 50 /96 hours, 10-100 mg/liter Golden fish LC0, 8-10 mg/liter LC50, 14-25 mg/liter LC100, 28-30 mg/liter

## TOXICITY OF THE PRODUCTS OF BIODEGRADATION

The products of degradation are as toxic as the product itself.



## Section 13 – Disposal Considerations

#### WASTE DISPOSAL

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

## Section 14 – Transport Information

## **DOT CLASSIFICATION:**

Proper Shipping Name: Toxic liquid, organic, n.o.s.

(Phenol/chloroform solution)

Hazard Class: 6.1 UN number: 2810

Packing group: Packing group II

#### IMO/IMDG CLASSIFICATION:

Proper Shipping Name: Toxic liquid, organic, n.o.s.

(Phenol/chloroform solution)

Hazard Class: 6.1 UN number:2810

Packing group: Packing group II

## **TDG CLASSIFICATION:**

Not Available

## **ICAO/IATA CLASSIFICATION:**

Proper Shipping Name: Toxic liquid, organic, n.o.s.

(Phenol/chloroform solution)

Hazard Class: 6.1 UN number: 2810

Packing group: Packing group II

## Section 15 – Regulatory Information

**United States** 

HCS Classification : Toxic material

Irritating material Carcinogen

Target organ effects

U.S. FEDERAL REGULATIONS

TSCA 8(b) inventory: PHENOL; CHLOROFORM; .



TSCA 8(d) H and S data reporting: : PHENOL;1987

SARA 302/304/311/312 extremely hazardous substances:. PHENOL;CHLOROFORM

SARA 302/304 emergency planning and notification: PHENOL; CHLOROFORM

SARA 302/304/311/312 hazardous chemicals: PHENOL; CHLOROFORM

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

PHENOL: Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard:

CHLOROFORM: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard:

SARA 313 toxic chemical notification and release reporting: PHENOL

Clean Water Act (CWA) 307: PHENOL;CHLOROFORM

Clean Water Act (CWA) 311:PHENOL;CHLOROFORM

Clean air act (CAA) 112 accidental release prevention: :CHLOROFORM.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: CHLOROFORM

## Section 16 - Other Information

This bulletin is for your guidance and is based upon information and tests believed to be reliable. Kurabo makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.