



Penta Fine Ingredients, Inc.

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SAFETY DATA SHEET

Revision Date: 7/01/2023

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	RESORCINOL USP
Product Number	18-16000
Brand	Penta
Identified Uses	Manufacture of substances
Company	Penta Fine Ingredients, Inc. 4 Dedrick Place West Caldwell NJ 07006 U.S.A.
Telephone	(973)740-2300
Fax	(973)740-1839
Emergency Phone	(800)424-9300 24-Hrs

2. HAZARD(S) IDENTIFICATION

Emergency Overview

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

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements



Pictogram:

Signal word Danger

Hazard
statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Precautionary
statement(s)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P301 P312 P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 P352	IF ON SKIN: Wash with plenty of soap and water.
P305 P351 P338 P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P332 P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard	2
Flammability	1
Physical hazards	1

NFPA Rating

Health hazard	2
Fire	1
Reactivity Hazard	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYM	1-3-Benzenediol		
Formula	C6 H6 O2		
Molecular Weight	110.11 g/mol		
CAS-No	EC-No	Index-No.	Concentration
108-46-3	203-585-2	604-010-00-1	

4. FIRST-AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

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

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions.-Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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 containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust

ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Air light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
1,3-Benzenediol	108-46-3	TWA	10ppm	USA. ACGIH Threshold Limit Values (TLV).
Remarks	Skin & eye irritation Not classifiable as a human carcinogen.			
		STEL	20ppm	USA.ACGIH Threshold Limit Values (TLV).
	Skin & eye irritation Not classifiable as a human carcinogen.			
		TWA	10ppm 45mg/m3	USA.OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000.
		STEL	20ppm 90mg/m3	USA.OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000.
		TWA	10ppm 45mg/m3	USA.NIOSH Recommended Exposure Limits.
		ST	20ppm 90mg/m3	USA.NIOSH Recommended Exposure Limits.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a back up 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).

Hand 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.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Solid
Colour	white to light pink

Safety data

pH	no data available
Melting point (°C)	110
Boiling point (°C)	277
Flash point (°F) Closed cup	>200
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure (mm Hg @20 °C)	>1
Density @25 °C	1.200
Water solubility	soluble
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odor	characteristic
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Materials to avoid

Oxidizing agents, Iron and iron salts.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products- no data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity**Oral LD50**

LD50 Oral-rat- 301mg/kg

Remarks: Behavioral: Convulsions or effect on seizure threshold. Gastrointestinal: Changes in structure or function of salivary glands. Lungs, Thorax, or Respiration: Dyspnea.

Inhalation LC50

no data available

Dermal LD50

LD50 Dermal-rabbit-3,360 mg/kg

Remarks: Skin irritation Nutritional and Gross Metabolic: weight loss decreased weight gain.

Other information on acute toxicity

no data available

Skin corrosion/irritation

Skin-rabbit- Skin irritation- 24 h

Serious eye damage/eye irritation

Eye-rabbit- Severe eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Genotoxicity in vitro-rat- liver

DNA damage

Genotoxicity in vitro- Human- lymphocyte

Cytogenetic analysis

Carcinogenicity

Carcinogenicity-mouse-Skin

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages:Other: Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,3-Benzenediol)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

To the best knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: VG9625000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to daphnia
and other aquatic
invertebrates.

EC50-Daphnia magna(WAter flea)-0.25 mg/l - 96 h

Toxicity to algae

EC50- Chlorella pyrenoidosa- 1.1 - 72 mg/l - 72 h

Persistence and degradability

Biodegradability Biotic/Aerobic Chemical oxygen demand

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2876 Class:6.1 Packing group: III
Proper shipping name: Resorcinol

IMDG

UN number:2876 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: RESORCINOL

IATA

UN number: 2876 Class: 6.1 Packing group: III
Proper shipping name: Resorcinol

15. REGULATORY INFORMATION

OSHA Hazards

Target Organs Effect, Toxic by ingestion, Irritant

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

1,3-Benzenediol	CAS-No.	Revision Date.
	108-46-3	1994-04-01

Pennsylvania Right To Know Components

1,3-Benzenediol	CAS-No.	Revision Date.
	108-46-3	1994-04-01

New Jersey Right To Know Components

1,3- Benzenediol	CAS-No.	Revision Date.
	108-46-3	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER CATEGORIES

Safety Data Sheet prepared by: Penta

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Penta's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

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