

Section 1. Identification

1.1 Product Identifier

3112

Product Name PHENOL-FUCHSIN SOLUTION

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier



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1.4 Emergency Telephone

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(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Flammable liquid, category 2

H225: Highly flammable liquid and vapour.

Skin corrosion/irritation, category 1B

H314: Causes severe skin burns and eye damage.

Germ cell mutagenicity, category 2

H341: Suspected of causing genetic defects.

Carcinogenicity, category 1B

H350: May cause cancer.

2.2 Label elements

Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Signal word Danger

Hazard Pictograms



Hazard Statements	Causes severe skin burns and eye damage. Highly flammable liquid and vapour. Suspected of causing genetic defects. May cause cancer.
Precautionary Statements	Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Do not breathe dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection.

Section 3. Composition

3.1 Substances

Component	CAS No.	EC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ethanol	64-17-5	200-578-6	01-2119457610-43-XXXX	7.2%	Flam. Liq. 2,Eye Irrit. 2
Phenol	108-95-2	203-632-7	01-2119471329-32-XXXX	4.6%	Acute Tox. 3 (O),Acute Tox. 3 (D),Skin Corr. 1B,Acute Tox. 3 (I),Muta. 2,STOT RE 2,Aquatic Chronic 2
Basic Fuchsin	569-61-9	209-321-2		~1%	Carc. 1B
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	0.4%	Flam. Liq. 2,Acute Tox. 3 (O),Acute Tox. 3 (D),Acute Tox. 3 (I),STOT SE 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.
Skin	Remove contaminated clothing immediately avoiding contamination of unaffected areas. Swab contaminated skin with a mixture of 70 parts polyethylene glycol and 30 parts alcohol. Alternatively use glycerol or polyethylene glycol, or if solvents are not available flush with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION URGENTLY.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. Convulsions may occur and cause unconsciousness. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.
Unsuitable Media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards	Vapour-air mixtures are explosive.
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5.3 Advice for firefighters

Advice for firefighters	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.
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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage

If molten allow to solidify first. Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits		
			Long Term (8hr TWA)	Short Term 15min period)	
Ethanol	64-17-5	7.2%	1000.0 ppm	1920.0 mg/m ³	-
Phenol	108-95-2	4.6%	2.0 ppm	8.0 mg/m ³	4.0 ppm
Basic Fuchsin	569-61-9	~1%	-	-	-
Methanol	67-56-1	0.4%	200.0 ppm	266.0 mg/m ³	250.0 ppm
					333.0 mg/m ³

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection

Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection

Use PVC gauntlets.

Eye Protection

Use chemical full face shield.

Skin Protection

Wear PVC oversuit.

Special Hazards

No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Clear red to dark red solution.

Odour

Distinctive, sweet tarry odour and burning taste.

pH

6 @ 20°C

Boiling Point

Aqueous solution

Melting Point	5°C
Flash Point	49°C (Closed cup)
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	Slight.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	0.9900
Water Solubility	Completely soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
10.5 Incompatible materials	Acetaldehyde. Aluminium chloride plus nitro benzene or nitromethane. Sodium nitrite.
10.6 Hazardous Decomposition Products	None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	The liquid is irritating to the eyes. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid will cause severe burns. Because of its local anaesthetic effect, skin burns may be painless.
LD50 Skin	Not available
Ingestion	May be harmful if swallowed. Causes severe corrosion of the mouth, throat and gastro-intestinal tract.
LD50 Oral	Not available
Inhalation	May be harmful by inhalation. Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Carcinogenicity, category 1B.
Mutagenicity	May be a mutagen.

Section 12. Ecological

12.1 Toxicity	Slightly toxic to aquatic species but will bioaccumulate.
LC50 Algal	Not available
LC50 Crustacea	Not available
LC50 Fish	Not available
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT & vPvB assessment	Assessment not required.
12.6 Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods	Dispose of in a licensed incinerator. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems.
Contaminated Packaging	Clean out with a weak sodium hydroxide solution then wash out thoroughly with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 1170

14.2 Proper Shipping Name Ethanol solution

14.3 Transport classes

UN classification	3
Subsidiary hazard(s)	None
Transport category	3
ADR Hazard ID	30
Tunnel Restriction Code	D/E



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14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for user No special precautions required.

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Classification Flammable liquid, category 2; Skin corrosion/irritation, category 1B; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B

Signal word Danger

Hazard Pictograms



Hazard Statements H314, H225, H341, H350

Causes severe skin burns and eye damage. Highly flammable liquid and vapour. Suspected of causing genetic defects. May cause cancer.

Precautionary Statements P210, P233, P260, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Do not breathe dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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