

# Technic B21S

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> Techno Waxchem PVT. LTD. 3C, Hitech Chambers, 84/1B, Topsia Road(S), Kolkata – 700 046, WB, India Tel: +91 33 2285 1278 / 1279, 4004 8093 / 88094	<b>Emergency Contact</b> Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
<b>Trade Name(s):</b> Technic B21S	<b>Chemical Name:</b> Resorcinol Formaldehyde Resin
<b>Relevant identified uses of the substance or mixture and uses advised against:</b> No further relevant information available.	
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>Date of Issue:</b> November 1, 2021

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008



GHS07  
 Skin Irrit. 2 H315 Causes skin irritation  
 Eye Irrit. 2 H319 Causes serious eye irritation.

### 2.2 Label elements

The substance is classified and labeled according to the CLP regulation.

#### Hazard pictograms



GHS07

Signal word: Warning

Hazard-determining components of labeling

Resorcinol Formaldehyde Resin  
 resorcinol

#### Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

#### Precautionary statements

P264 Wash hands thoroughly after handling  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information: May form combustible dust concentrations in air.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Components

CAS: 135020-80-3	Formaldehyde, polymer with 1,3-benzenediol and ethenylbenzene Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	92-94%
CAS: 108-46-3 EINECS: 203-585-2 Index number: 604-010-00-1	resorcinol Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	6-8%

Additional information: For wording of the listed risk phrases refer to section 16.

**4. FIRST AID MEASURES**

4.1 Description of first aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact

Brush off loose particles from skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant to skin and mucous membranes.

Irritant to eyes

Methemoglobinemia

Cyanosis

Profuse sweating

Gastric or intestinal disorders.

Hazards

Danger of disturbed cardiac rhythm.  
Danger of cerebral edema.  
Danger of circulatory collapse.  
Danger of convulsion.

4.3 Indication of any immediate medical attention and special treatment needed

Contains dihydroxybenzenes. Consult literature for specific antidotes.  
If necessary, oxygen respiration treatment.  
Monitor circulation, possible shock treatment.  
Do not administer preparations of the adrenalin-ephedrine-group.

## 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Foam, Fire-extinguishing powder, gaseous extinguishing agents, carbon dioxide.

For safety reasons, unsuitable extinguishing agents: Water.

5.2 Special hazards arising from the substance or mixture

May form combustible dust concentrations in air.  
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid formation of dust.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water.  
Damp down dust with water spray.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.  
Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7. HANDLING AND STORAGE**

7.1 Precautions for safe handling  
 Prevent formation of dust.  
 Store in cool, dry place in tightly closed receptacles.  
 Information about fire and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities  
 Storage  
 Requirements to be met by storerooms and receptacles  
 Avoid storage near extreme heat, ignition sources or open flame.  
 Protect from humidity and water.  
 Information about storage in one common storage facility  
 Store away from foodstuffs.  
 Do not store together with oxidizing and acidic materials.  
 Further information about storage conditions  
 Keep container tightly sealed.  
 Protect from humidity and water.  
 This product is hygroscopic.

7.3 Specific end use(s): No further relevant information available.

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

Additional information about design of technical facilities: No further data; see Section 7.  
 8.1 Control parameters

Resorcinol, 1,3-benzenediol (108-46-3)	
Nom local	Resorcinol
VME (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>
VME (ppm)	10 ppm
Nom local	Resorcinol
WEL TWA (mg/m <sup>3</sup> )	46 mg/m <sup>3</sup>
WEL TWA (ppm)	10 ppm
WEL STEL (mg/m <sup>3</sup> )	92 mg/m <sup>3</sup>
WEL STEL (ppm)	20 ppm

United Kingdom	Remark (WEL)	Skin (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
USA - ACGIH	Nom local	Resorcinol
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
USA - ACGIH	ACGIH STEL (ppm)	20 ppm

USA - ACGIH	Remark (ACGIH)	Eye & skin irr
-------------	----------------	----------------

DNELs: No further relevant information available.

PNECs: No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages, and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

Respiratory protection

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when high concentrations are present.

For spills, respiratory protection may be advisable.

Protection of hands



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

Eye protection



Safety glasses

Body protection

Not required under normal conditions of use.

Protection may be required for spills.

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

Appearance Form: Solid, pastilles, flakes Color: Red to dark brown.	Change in Condition Melting Point/Range: 105 °C Boiling point/Range: No data available.
Odor: Phenol-like.	Relative density: Not determined.
Odor threshold: Not determined.	pH value: 4-6 (50% aqueous solution)
Vapor Pressure: Not determined.	Flash point: > 220 °C
Density at 23 °C: 1.20-1.40 g/cm <sup>3</sup> .	Flammability (solid, gaseous): Not applicable.
Vapor Density: Not determined.	Ignition temperature: Not determined
Evaporation rate: Not determined.	Decomposition temperature: Not determined
Solubility in / Miscibility with water: Insoluble in water. Soluble in alcohols.	Self-igniting: Product is not self-igniting.
Partition coefficient (nOctanol/water): Not determined.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not determined. Kinematic: Not determined	Explosion limits Lower: Not determined. Upper: Not determined.

9.2 Other information: No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Thermal decomposition/conditions to be avoided

No decomposition if used and stored according to specifications.

To avoid thermal decomposition do not overheat.

### 10.3 Possibility of hazardous reactions

Product will not undergo polymerization. Reaction with formaldehyde is mildly exothermic.

10.4 Conditions to avoid: Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.

10.5 Incompatible materials: Formaldehyde. Strong acids, bases. Strong oxidizers. Strong reducing agents.

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and water.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.  
 Sensitization: No sensitizing effects known.  
 Subacute to chronic toxicity  
 Irritant  
 Toxic and/or corrosive effects may be delayed up to 24 hours.

Additional toxicological information

The product shows the following dangers according to the calculation method of the General EU

Classification

Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

TECHNIC 'B21S (135020-80-3)	
LD50 oral rat	3.1 g/kg
LD50 dermal rabbit	3.98 g/kg bodyweight Intact & Abraded Skin 24 hrs

**12. ECOLOGICAL INFORMATION**

12.1 Toxicity

Aquatic toxicity: The product contains materials that are harmful to the environment.

12.2 Persistence and degradability: biodegradable.

12.3 Bioaccumulative potential: Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

12.4 Mobility in soil: No further relevant information available.

Ecotoxic effects

Remark

Due to mechanical actions of the product (e.g., agglutinations) damages may occur.

The product is oxygen consuming. The declared action may be partly caused by lack of oxygen.

Additional ecological information

General notes

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Un-cleaned packaging

Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

- 14.1 UN-Number  
DOT, ADR, ADN, IMDG, IATA                      Not regulated
  
- 14.2 UN proper shipping name  
DOT, ADR, ADN, IMDG, IATA                      Not regulated
  
- 14.3 Transport hazard class(es)  
DOT, ADR, ADN, IMDG, IATA Class              Not regulated
  
- 14.4 Packing group  
DOT, ADR, IMDG, IATA                              Not regulated
  
- 14.5 Environmental hazards  
Marine pollutant                                      No
  
- 14.6 Special precautions for user                      Not applicable
  
- 14.7 Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code              Not applicable.  
UN "Model Regulation"

**15. REGULATORY INFORMATION**

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture United States (USA)

SARA Section 355 (extremely hazardous substances)	None of the ingredients is listed.
SARA Section 313 (Specific toxic chemical listings)	None of the ingredients is listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed
Proposition 65 (California)	
Chemicals known to cause cancer	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	None of the ingredients is listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	None of the ingredients is listed.



IARC (International Agency for Research on Cancer)	108-46-3 resorcinol 3
TLV (Threshold Limit Value established by ACGIH)	108-46-3 resorcinol. A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed.
Canada	
Canadian Domestic Substances List (DSL)	All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	108-46-3 resorcinol

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Abbreviations and acronyms

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1