

# Technic B21S

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> Techno Waxchem PVT. LTD. 3C, Hi Tech 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 (continental USA) (1)703-527-3887 (outside continental 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>Application of the substance/the preparation:</b>
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>SDS Number:</b> <b>Date of Issue:</b> March 1, 2017 <b>Revision Number:</b> New <b>Change(s):</b>

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
 Classification according to Regulation (EC) No. 1272/2008 [CLP]  
 Skin corrosion/irritation Category 2 H315  
 Serious eye damage/eye irritation, Category 2 H319  
 Full text of H statements: see section 16

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP](s) to display  
 Hazard pictograms (CLP)



GHS07

Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

Warning

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation

P264 - Wash hands thoroughly after handling  
 P280 - Wear protective clothing  
 P302+P352 - IF ON SKIN: Wash with plenty of water  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P321 - Specific treatment (see IF ON SKIN: Wash with plenty of soap

Child-resistant fastening  
Tactile warning

and water, Wear protective gloves/protective clothing and eye/face protection. on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
No  
No

2.3 Other hazards  
No additional information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances  
Name: TECHNIC B21S  
CAS No: 135020-80-3  
EC no: 603-888-3

Name	Product identifier	%
Formaldehyde, polymer with 1,3-benzenediol and ethenylbenzene	(CAS No) 135020-80-3 (EC no) 603-888-3	92 – 94
resorcinol, 1,3-benzenediol	(CAS No) 108-46-3 (EC no) 203-585-2 (EC index no) 604-010-00-1	6 – 8

**4. FIRST AID MEASURES**

4.1 Description of first aid measures  
First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Seek immediate medical advice. Get medical advice/attention. Specific treatment (see Rinse immediately with plenty of water (for at least 15 minutes), After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water., IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. on this label).

First-aid measures after eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye irritation.
Symptoms/injuries after ingestion	Ingestion may cause nausea, vomiting and diarrhoea.

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

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

### 5.2 Special hazards arising from the substance or mixture

Explosion hazard	May form explosive dust-air mixtures when powder finely dispersed in air.
Hazardous decomposition products in case of fire	Carbon dioxide. Carbon monoxide.

### 5.3 Advice for firefighters

Fire Fighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Use self-contained breathing apparatus when in close proximity to fire.
Protective equipment for fire fighters	Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Protective equipment	Wear protective gloves and eye/face protection.
Emergency procedures	Evacuate unnecessary personnel. Stop leak, if possible without risk. Dust deposited may be vacuum cleaned or the area hosed down with water.

#### 6.1.2 For emergency responders

Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up  
 Methods for cleaning up                      On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4 Reference to other sections  
 No additional information available

**7. HANDLING AND STORAGE**

Additional hazards when processed            Avoid all contact with skin, eyes, or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Minimize generation of dust.

Precautions for safe handling                Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Use approved industrial vacuum cleaner for removal. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of leaking equipment, routine housekeeping and employee hazards training.

Hygiene measures                                Use only with adequate ventilation.  
     Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities  
 Storage conditions                              Keep only in the original container in a cool, well ventilated place away from: Heat sources. Keep container closed when not in use.

7.3 Specific end use(s)  
 No additional 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)		
France	Local name	Résorcinol
France	VME (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
United Kingdom	Local name	Resorcinol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	46 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	92 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	20 ppm

Resorcinol, 1,3-benzenediol (108-46-3)		
United Kingdom	Remark (WEL)	Sk (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	Local name	Resorcinol
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
USA - ACGIH	ACGIH STEL (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	Eye & skin irr

## 8.2 Exposure controls

Personal protective equipment	Avoid all unnecessary exposure.
Materials for protective clothing	Use multi-purpose combination (US) or type ABEK (EN) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Wear protective gloves
Eye protection	Chemical goggles or safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear appropriate mask. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134). (NIOSH-approved). In case of dust formation use respirator with filter:
Other information	Do not eat, drink or smoke during use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Pastilles. Flakes.
Colour	Red to dark brown.
Odour	Slightly Phenolic.
Odour threshold	No data available
pH	4 - 6 (50% aqueous alcohol solution)
Relative evaporation rate (butyl acetate=1)	No data available
Melting point	105°C
Softening Point	99 – 109°C
Boiling point	No data available
Flash point	> 220 °C
Auto-ignition temperature	No data available

Decomposition temperature	No data available
Flammability (solid, gas)	Non- flammable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.2 - 1.4 @ 23 Deg. C
Solubility	Insoluble in water. Soluble in alcohols.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2 Other information No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 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. Water

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity Not classified

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

Skin corrosion/irritation	Causes skin irritation. pH: 4 - 6 (50% aqueous alcohol solution)
Serious eye damage/irritation	Causes serious eye irritation. pH: 4 - 6 (50% aqueous alcohol solution)
Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
Carcinogenicity	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	Not classified Based on available data, the classification criteria are not met
Aspiration hazard	Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

**12. ECOLOGICAL INFORMATION**

12.1 Toxicity  
No additional information available

12.2 Persistence and degradability

TECHNIC B21S (135020-80-3)	
Persistence and degradability	Not established.

12.3 Bioaccumulative potential

TECHNIC B21S (135020-80-3)	
Bioaccumulative potential	Not established.

12.4 Mobility in soil  
No additional information available

12.5 Results of PBT and vPvB assessment  
 No additional information available

12.6 Other adverse effects  
 Additional information: Avoid release to the environment

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods  
 Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.  
 Ecology - waste materials: Avoid release to the environment.

**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  
 UN "Model Regulation": Not applicable.

**15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
 Labeling according to GHS EC No 1272/2008

Signal Word	Hazard Class Statement	Pictogram
Warning	H303 May be harmful if swallowed	None
Warning	H313 May be harmful in contact with skin	None
	H316 Causes Skin Irritation	GHS07, Exclamation Mark
Warning	H319 Caused serious Eye Irritation	GHS07, Exclamation Mark
None	H401 Toxic to Aquatic Life	None

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU-Regulations



No REACH Annex XVII restrictions  
 TECHNIC B21S is not on the REACH Candidate List  
 Contains no substance on the REACH candidate list  
 TECHNIC B21S is not on the REACH Annex XIV List  
 Contains no REACH Annex XIV substances

15.1.2 National regulations

Germany  
 12th Ordinance Implementing the Federal Emission Control Act - 12.BImSchV Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen The substance is not listed

SZW-lijst van mutagene stoffen The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling The substance is not listed

15.1.3 USA-Regulations

SARA Section 355 (extremely hazardous substance): No of the ingredient is listed

SARA Section 313 (specifically toxic chemical listings): None of the ingredient is listed

TSCA (Toxic Substance Control Act): All ingredients are listed

Proposition 65 (California)

Chemicals known to cause cancer: None of the ingredient is listed

Chemicals known to cause reproductive toxicity for females: None of the ingredient is listed

Chemicals known to cause reproductive toxicity for males: None of the ingredient is listed

Chemicals known to cause developmental toxicity : None of the ingredient is listed

Canada

Canadian Domestic Substance List (DSL): All ingredient are listed

Canadian Ingredient Disclosure List (limit 0.1%): None of the ingredient is listed

Canadian Ingredient Disclosure List (limit 1%): 108-46-3 Resorcinol

15.2 Chemical safety assessment

No chemical safety assessment has 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.

## Sources of Key data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

## Other information

None.

## Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life

## SDS EU (REACH Annex II)