



Safety Data Sheet according to (EC) No.1907/2006 - ISO 11014-1

# Injection 2000

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Trade Name: **Injection 2000** (Polyester PE)  
Intendend use: **Chemical Anchoring System**  
Company: Simpson Strong-Tie Ireland Ltd., Zweigniederlassung  
Deutschland, 64319 Pfungstadt, Germany

Chemical Name & Synonyms: 2 Component Chemical Anchor Grout containing Unsaturated Resin and Dibenzoyl Peroxide

For Information: (UK) +44-1827-255 600 / (GERMANY) +49-6157-9868-0  
In an Emergency: (UK) +44-1270-502891

## 2. HAZARDS IDENTIFICATION

Resin: Flammable, Harmful by inhalation, Irritating to eyes and skin  
Catalyst: May cause sensitisation by skin contact.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Substance	CAS Number	Concentration range	Warning Symbol	Risk Phrases
Styrene	100-42-5	10-30%	Xn	R10, R20, R36/38
Dibenzoyl Peroxide	94-36-0	10-30%	E, Xi	R2, R36, R43

## 4. FIRST AID MEASURES

**Summon immediate medical assistance on contact with skin, eyes, inhalation or ingestion**

Eye: Irrigate with clean water for at least 15 minutes. Seek medical attention.  
Skin: Remove from skin with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.

Ingestion: Drink plenty of water. Seek medical attention.  
**DO NOT INDUCE VOMITING.**

Inhalation: Move patient to fresh air and allow to rest. If patient is slow to recover or unconscious, obtain medical assistance immediately.  
*First Aiders should protect themselves from exposure (ref. to Section 8).*

## 5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry powders, CO<sub>2</sub> and Foam. **Not to be used: Halones**

Exposure Hazards: Flammable. Sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.

Fire Fighting Equipment: Wear self contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Do not discharge into sewers. Scrape up and place into a suitable container for disposal.  
Wash area with water  
*Refer to section 5, 8 and 13 for Protective Measures and Disposal*

## 7. HANDLING AND STORAGE

Resin: Keep away from heat and sources of ignition.

Catalyst: Keep away from heat and sources of ignition. No sparking tools should be used. Never bring into direct contact with accelerator. Store in a cool, dry place. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### *Workplace exposure limits*

Hazard	Long Term Exposure Limit 8 hour TWA		Short Term Exposure Limit 15 minutes	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Styrene	100	430	250	1080
Dibenzoyl Peroxide	N/A	5	N/A	N/A

Respiratory: If forced air extraction is not available in enclosed areas, an organic vapour mask will be required if the occupational exposure limit is exceeded.

Ingestion: Unlikely during normal use.

Skin Protection: Wear gloves at all times.

Eye Protection: Not required during normal use. If splashing can occur, goggles should be worn.

## 9. PHYSICAL / CHEMICAL PROPERTIES

Resin		Catalyst	
Appearance	Thick amber paste	Appearance	Thick grey paste
Odour	Distinct Styrene	Odour	Faint
Density	1.60kg/lit	Density	1.55kg/lit
Flash Point	31°C	Flash Point	Above the SADT (50°C)
Explosive Properties	Lower Limit 1.1% Upper limit 6.1%	Oxidising Properties	Oxidising
Autoflammability	490°C	Autoflammability	>380°C
Solubility	Insoluble in water	Solubility	Insoluble in water

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Resin component can polymerise (solidify) exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. A dangerous self accelerating decomposition reaction and under certain circumstances explosion or fire can be caused by direct contact of the catalyst with incompatible substances or by thermal decomposition.

### Materials to avoid

Resin: Reacts vigorously with strong oxidising agents and peroxides.

Catalyst: Violent reactions may be expected with acid, alkali, heavy metal and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators.

Hazardous Decomposition: Emits acrid smoke and irritating fumes of carbon oxides when heated to decomposition

Hazardous Polymerisations: Polymerisations in a closed container can give rise to pressure, which may rupture.

### 11. TOXICOLOGICAL INFORMATION

**Oral:**

Resin: Material is classified as harmful. An LD<sub>50</sub> (rat) is 2650mg/m<sup>3</sup>

Catalyst: Material is classified as a sensitiser and may cause sensitisation by skin contact.  
An LD<sub>50</sub> (rat) is 7710mg/m<sup>3</sup>

**Inhalation:**

Resin: Lung irritant, can induce drowsiness and eventual unconsciousness.  
Do not fumes.

Eye: Irritation and redness may occur.

Skin: Irritation and redness may occur.

### 12. ECOLOGICAL INFORMATION

Do not discharge into drains or the environment.

### 13. DISPOSAL CONSIDERATIONS

In an uncured state, place in a suitable container and dispose of as chemical waste in accordance with local regulations. Small quantities of resin and catalyst may be reacted together, allowed to cure and disposed of as solid waste.

### 14. TRANSPORT INFORMATION

**Supply Label:** Harmful Flammable  
UN No./SI No. 3269 Polyester Resin Kit  
Hazard Class 3. Packing Group III



### 15. REGULATORY INFORMATION

**Labelling:** Harmful, Flammable.  
**Risk Phrases:** R10 Flammable, R20 Harmful by inhalation, R36/38 Irritating to eyes and skin  
**Safety Phrases** S2 Keep out of reach of children, S23 Do not breathe vapour, S46 If swallowed, seek medical advice immediately and show this container or label.

### 16. OTHER INFORMATION

Risk phrases used in section 2 and not previously mentioned.  
R2 Risk of explosion by shock, friction, fire or other sources of ignition.  
R36 Irritating to eyes  
R43 May cause sensitisation by skin contact.

Date of Preparation: Aug 09  
Prepared By: A. Pawsey

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