# Jorgensen Laboratories, Inc.

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Product Codes: J751, J751A

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## HAZARDOUS INFORMATION

# **Steel Epoxy Putty Stick**

ast Acting, Steel Repair Putty

### **Pescription**

teel stick is a hard kneadable, non-rusting, steel sinforced epoxy putty that mixes in one minute to rovide fast, permanent repair to items made of ferrous nd alloy metals. It comes in a handy rod form with the curing gent encapsulated in the resin material. Its putty-like onsistency eliminates drips and runs providing "no mess" pplication with no tools required for use. teel-stick is steel gray in color after cure.

leneral characteristics

lesin Epoxide

**Themical Resistance** Resistant to hydrocarbons,

ketones, alcohols, esters,

halocarbons, aqueous salt solutions

and dilute acids and bases

**lectrical Resistance** 30,000 mega Ohms

300 Volts/mil

dielectric Strength

<1%

hrinkage Jon-volatile content

100%

helf life

6 months minimum stored at

25°C

Compressive strength—84N/mm(2) (12,000 psi)

**Tax temperature** 

lesistance 120°C continuous 150°C intermittent

'erformance Characteristic

nitial Cure 1 hour max 'ull Cure Time 24 hours

ap Sheer Tensile

6.2N/mm(2) trength (Steel)

hore D Hardness

Full Cure 24hrs0 80

3.5 minutes pening Time

#### How to Use

In order to achieve optimum adhesion, surfaces should be clea grease or dirt. Scuffing or sanding the surface prior to cleaning ensure a good bond.

Mixing: Twist or cut off required amount. To mix, knead with uniform color. If mixing is difficult warm Steel-Stick to room temperature or slightly above. Apply to the surface to be repair two minutes of mixing.) The mixed epoxy does not exhibit hig strength at this point, but appears to be merely lying on the sur into any cracks or holes to be filled and strike off excess mater preferably with a tool wetted with clean water. When applying wet or slowly leaking area, work the material forcefully into th and apply pressure until adhesion begins to take effect.

For a smooth appearance of the cured compound hand rub witl damp clothe prior to hardening. Remove excess material befor begins. After just 30 minutes Steel-Stick is completely cured a drilled, sawn, carved, sanded, stained or painted

Storage: Store in cool conditions preferably away from direct s excessive heat. Shelf life is at least 6 months at 25°C.

Health and Safety: Steel-Stick contains epoxy resins and hardn can cause skin irritation in sensitive individuals. It is therefore recommended that the hands be washed immediately after use, either a proprietary hand cleaner such as Saratoga or soap and Always keep Steel-Stick away from food and utensils.

Pack Size: Steel-Stick is packaged in a 180-gram clear plastic: tube with a plastic end cap.

While all reasonable care is taken in compiling technical data ( company's products are made without guarantee since the conc use are beyond the control of the company. It is the customer's responsibility to satisfy him that each product is fit for the purp which he intends to use it, and that the actual conditions of use

Section 1

Preparation and Company identification

## Preparation identification:

VES1-Epoxy Steel Stick

## Company identification and Telephone Number

Vortex Industrial Products Ltd. Terry Dicken Industrial Estate Ellebeck Way Stokeseley Cleveland TS 7AE

Tel 01642 713613

Section 2

Composition/information on ingredients

Hazardous

CAS No.

Percentage:

Components

Epichlorohydrin 25088-38-6

10%-20%

Bisphenol A

Index No 603-074-00-8

EEC-Symbol XI

Risk phrases: R36/38-43

Section 3

Hazards identification

Irritating to eyes and skin

May cause sensitization by skin contact

Section 4

First Aid Measures

Inhalation:

Not applicable, material does not emit harmful vapors

Skin Contact:

May lead to sensitization. Wash with plenty of soap and water. Do not use organic solvents.

Eye contact:

Irritant may cause superficial burns. Wash immediately with copious amounts of clean water. Seek medical attention immediately

Ingestion:

Rinse mouth out with clean water. If swallowed, drink plenty of water or milk. Do not induce vomiting. Seek medical attention immediately.

This sheet should be shown to emergency services/medical staff.

Section 5

Fire Fighting Measures

Extinguishing Media: Foam/water fog/dry powder/CO2

Odor: Very slight

Solubility in water: In soluble

Section 6

Accidental Release Measures

Personal precautions: Suitable protective clothing (overalls), rubber/plastic-coated gloves, and eye/face protection advised.

Environmental precautions: Inform local authority if material reaches public drains or waterways.

Methods of cleanup: Shovel into suitable closed container

Section 7

Handling and Storage

<u>Handling</u>: Irritant. Sensitizing. Ensure good ventilation. Smoking, eating, drinking and preparation of foodstuffs prohibited where material are stored or handled. Storage: Store in a cool location away from direct sunlight.

Section 8

Exposure Control / Protection

Respiratory: None required

<u>Hand/Skin</u>: Wash hands after each work period and before eating. Wear rubber or plastic-coated gloves while handling product

Eye: Safety glasses/goggles or face shield advised especially when working overhead.

Section 9

Physical / Chemical Properties

Appearance: Putty, various colors

Odor: Very slight Flash Point: >200° C

Solubility in water: Insoluble

#### Section 10

### Stability and Reactivity

**Conditions To Avoid:** Temperature Extremes

<u>Materials To Avoid</u>: Strong acids, strong oxidizing agents

Hazardous Decomposition products:

May release oxides of carbon and other toxic gases or vapors if burned.

#### Section 11

#### Toxicological Information

LD50 Acute oral toxicity in rats: >2000mg/kg Eye irritant tested in rabbits: possible Skin irritant tested in rabbits: possible Skin sensitization in guinea pigs: may cause sensitization by skin contact

#### Section 12

**Ecological Information** 

Do not allow the material to enter water courses. If water is contaminated inform the relevant authorities immediately.

#### Section 13

Transportation

Not regulated.

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