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BRITISH UNITED INDUSTRIES (VIC) PTY LTD ATF BYRNE HUGHES FAMILY BUSINESS TRUST TRADING AS A TO Z SOLID SOLUTIONS ACN 006 303 591

**MODELLING MOULDING AND CASTING MATERIALS**

## MATERIAL SAFETY DATA SHEET

### STATEMENT OF HAZARDOUS NATURE:

Classified as **HAZARDOUS** according to criteria of NOHSC.

**EMERGENCY TELEPHONE:** Poisons Information Centre 13 11 26 (24 Hours).

## IDENTIFICATION

<b>Product Name:</b>	<b>SolidCast695HTPottingResin</b> Part B.
<b>Other Names:</b>	Not applicable.
<b>Manufacturer's Product Code:</b>	ER 695 B.
<b>UN Number:</b>	UN 2922.
<b>Dangerous Goods Class &amp; Subsidiary Risk:</b>	Dangerous Goods Class 8; Subsidiary Risk 6.1.
<b>Packing Group:</b>	Packing Group II.
<b>Hazchem Code:</b>	2XE
<b>Poisons Schedule Number:</b>	Poisons Schedule Number S5 allocated.
<b>Use:</b>	Ambient temperature curing agent for mixing with Material Safety Data Sheet - Solid Cast 695 HT Potting Resin Kit is used in areas such as potting and casting.
<b>Physical Description/ Properties:</b>	
<b>Appearance:</b>	Straw yellow mobile liquid.
<b>Boiling Point/ Melting Point:</b>	Boiling Point > 100° C.
<b>Vapour Pressure:</b>	< 10.34 mm Hg at 21° C.
<b>Specific Gravity:</b>	Approx. 0.95.
<b>Flashpoint:</b>	140.56° C (Closed cup).
<b>Flammability Limits:</b>	Not applicable.
<b>Solubility in Water:</b>	Slightly soluble (0.1 – 1 %).
<b>Other Properties:</b>	
<b>Vapour Density:</b>	8.21 (Air = 1).
<b>Odour:</b>	Irritating odour.
<b>Hazardous Polymerization Materials to Avoid:</b>	Epoxy resins, Oxidising agents, Strong acids.
<b>pH:</b>	Alkaline.
<b>Ingredients:</b>	
<b>Chemical Name:</b>	

3,3' – Dimethyl-Methylenedi (Cyclohexanamine)  
Ingredients determined not to be hazardous

**CAS Number:**

6864-37-5

**Proportion:**

> 60%  
to 100%



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## HEALTH HAZARD INFORMATION

### Health Effects:

Product is considered to be Toxic, Harmful, Corrosive, and Dangerous for the Environment.

### Acute:

#### Swallowed:

Harmful if swallowed. Ingestion may cause death unless treated promptly.

#### Eye:

Product vapour in low concentrations can cause lacrimation, conjunctivitis and corneal oedema when absorbed into the tissue of the eye from the atmosphere. Burns of the eye may cause blindness. Contact of undiluted product with the eyes quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury.

#### Skin:

Toxic in contact with skin. Contact of undiluted product with the skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury. Product is absorbed through the skin and may cause malaise, discomfort, injury and death unless treated promptly.

#### Inhaled:

Inhalation of vapours, aerosols and mists may severely damage contacted tissue and produce scarring.

### Chronic:

#### Eye:

Repeated and/or prolonged exposures may result in adverse eye effects (such as conjunctivitis or corneal damage).

#### Skin:

Repeated and/or prolonged exposures may result in adverse skin effects (such as rash, irritation or corrosion).

#### Inhaled:

Repeated and/or prolonged exposures may result in adverse respiratory effects (such as cough, tightness of chest or shortness of breath). Effects from inhalation of vapours may be delayed. Repeated and/or prolonged exposure to low concentrations of vapour may cause sore throat which are transient.

### First Aid:

#### Swallowed:

If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

#### Eye:

Hold eyelids apart and immediately flush eyes with copious quantities of water for at least 15 minutes. Seek medical advice.

#### Skin:

Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS. Control shock, if present. Launder contaminated clothing prior to reuse.

#### Inhaled:

Move patient to fresh air. If breathing has stopped or is laboured give assisted respiration (eg mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

#### First Aid Facilities:

Eye wash fountains and a general washing facility should be easily accessible in the immediate work area.



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<b>Advice to Doctor:</b>	Treat symptomatically.
<b>Toxicity:</b>	
<b>Human:</b>	No data available, animal data suggests product to be a toxic hazard.
<b>Animal:</b>	
<b>Acute Toxicity:</b>	Acute Oral Toxicity, LD <sub>50</sub> , Rat >320 mg/kg. Acute Dermal Toxicity, LD <sub>50</sub> , Rabbit >200 mg/kg. Acute Inhalation Toxicity, LC <sub>50</sub> , Rat 0.42 mg/L /4 hr.
<b>Chronic Toxicity:</b>	This product has been tested and shown not to cause sensitisation in guinea pigs.
<b>Other Information:</b>	Ames Test: Negative (activated and non-activated).

## PRECAUTIONS FOR USE

<b>Exposure Standards:</b>	No Australian Exposure Standards for product established. No OSHA or ACGIH Exposure Standards for product established.
<b>Engineering Controls:</b>	Local ventilation may be required if the product is being used in a poorly-ventilated workplace.
<b>Personal Protection:</b>	<u>Respiratory protective equipment:</u> not required under normal conditions in a well-ventilated workplace; however an approved respirator of type according to AS 1716 may be necessary to prevent overexposure by inhalation during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications. <u>Eye protection:</u> full face shield with goggles underneath recommended. <u>Hand protection:</u> impermeable gloves (Neoprene rubber, cuffed butyl rubber, or nitrile rubber) recommended. <u>Clothing:</u> impervious (butyl or latex) protective clothing, slicker suit, full rubber suit (rain gear) giving full protection recommended. <u>Footwear:</u> rubber safety boots recommended. <u>Industrial Hygiene:</u> To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.
<b>Flammability:</b>	Class C1 combustible liquid. Product is non-flammable according to Australian Code for Transport of Dangerous Goods. However, product will burn in a general fire.



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## SAFE HANDLING INFORMATION

### **Storage and Transport:**

Handling: Avoid contact with skin or eyes. Avoid breathing of vapours. Handle in well ventilated workspace. When handling, do not eat, drink, or smoke.

Storage: Keep away from: acids, oxidisers. Keep in cool, dry, ventilated storage and in closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dykes to contain spills or leaks. Do not store in reactive metal containers.

Incompatibility (Materials to avoid): Mineral acids (i.e. sulfuric, phosphoric, etc). Organic acids (i.e. acetic acid, citric acid etc). Oxidising agents (i.e. perchlorates, nitrates etc). Sodium or Calcium Hypochlorite. Product slowly corrodes copper, aluminium, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

### **Proper Shipping Name:**

CORROSIVE LIQUID, TOXIC, N.O.S. (Dimethylmethylethylamine), 3,3'.

### **Spills and Disposal:**

#### **Spills:**

Precautions: Open enclosed spaces to outside atmosphere. Evacuate all personnel upwind or downwind from the spill. Wear protective clothing, boots, gloves, and eye protection. Evacuate the area.

Methods for Cleaning Up: If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

#### **Disposal:**

Dispose of in accordance with Local, State and Federal regulations. Wear protective clothing during disposal operations. If disposal is by a waste contractor, make sure that he has sufficient information and that waste containers are properly labelled.

### **Fire/ Explosion Hazard:**

May generate toxic, irritating or flammable combustion products at elevated temperatures or in a fire.

### **Hazardous Decomposition or Byproducts:**

May generate carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid in a fire. May generate ammonia when heated. Irritating and toxic fumes at elevated temperatures. Nitrogen oxide can react with water vapours to form corrosive nitric acid.

### **Fire Fighting Procedures:**

A face shield should be worn. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus. Retain expended liquids from fire fighting for later disposal.

### **Fire Fighting Precautions:**

Personnel in vicinity and downwind must be evacuated. Contact of liquid with skin must be prevented.



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**Extinguishing Substances:** Ignition will give rise to a Class B fire. In case of large fire use: water spray or alcohol foam. In case of small fire use: carbon dioxide (CO<sub>2</sub>), dry chemical, dry sand or limestone.

**Hazchem Code:** Hazchem Code 2XE allocated.

## OTHER INFORMATION

**Environmental Protection:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid contaminating waterways.

**Further Ecological Information:**

**General Information:** Slightly soluble in water.

**Risk Statement:** R22: Harmful if swallowed.  
R23/24: Toxic by inhalation and in contact with skin.  
R35: Causes severe burns.  
R51: Toxic to aquatic organisms.  
R53: May cause long term adverse effects in the aquatic environment.

**Safety Statement:** S1/2: Keep locked up and out of the reach of children.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**Packaging & Labelling:** Combustible liquid – Class C2 label required, including Hazardous Substance requirements.

**Hazard Category:** Toxic (T), Dangerous for the Environment (N).

**Regulatory Information:** All ingredients are listed in the Australian Inventory of Chemical Substances.

**Contact Point:** Regulatory Affairs Officer, 03 9579 2044.

**Issue date:** 01/15/2012. **Supersedes Issue Date:**

**Reason(s) For Issue:** New issue

*Safety Data Sheets are updated frequently. Please ensure that you have a current copy.*

## GENERAL

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since Solid Solutions and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. This MSDS does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.