

**\*\*\* SAFETY DATA SHEET \*\*\*****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME                      STYCAST 2651-40 W 1

RECOMMENDED USE                Encapsulants

SUPPLIER                            ICI Belgium nv (Emerson & Cuming)  
Nijverheidsstraat 7  
B 2260 Westerlo  
Belgium

EMERGENCY TELEPHONE:  
BIG, Technische Schoolstraat 43 A, B-2440 Geel  
+32 (0)14 58 45 45 (Fax: +32 (0)14 58 35 16)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>COMPONENT</u>	<u>EC NUMBER</u>	<u>CONCENTRATION %</u>	<u>EC SYMBOL</u> <u>RISK PHRASES</u>
Epoxy resin (number average molecular weight <= 700)	500-033-5	>50	XI N R36/38 R43 R51/53
Epoxy resin		1 - 5	XI N R36/38 R43 R51/53
Cresyl glycidyl ether	218-574-8 218-575-3 218-645-3 247-711-4	1 - 5	N XI R51/53 R38 R43 R68

For full text of risk phrases, please refer to Section 16.

**3. HAZARDS IDENTIFICATION**

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EMERGENCY OVERVIEW	IRRITANT MUTAGENIC CATEGORY 3 -- possibly mutagenic to man HARMFUL SENSITIZER  DANGEROUS FOR THE ENVIRONMENT
EYE	Will cause eye irritation.
SKIN CONTACT	Irritating to the skin. Repeated and/or prolonged contact may cause skin sensitisation.
INHALATION	Unlikely to be hazardous by inhalation because of the low vapour pressure of the material at ambient temperature.
INGESTION	No hazard in normal industrial use.
ENVIRONMENTAL	Toxic to aquatic organisms.

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#### 4. FIRST-AID MEASURES

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EYE	Immediate medical attention is not required. Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. If symptoms develop, obtain medical attention.
SKIN CONTACT	Immediate medical attention is not required. Wash skin with soap and water. If symptoms develop, obtain medical attention.
INHALATION	Remove to fresh air. Administer oxygen to aid breathing. Get medical attention.
INGESTION	If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

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#### 5. FIRE-FIGHTING MEASURES

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EXTINGUISHING MEDIA	CO2; Dry Chemical; Foam; Water Spray
SPECIAL FIREFIGHTING PROCEDURES	Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
FIRE & EXPLOSION HAZARDS	Combustion will evolve irritant vapours.
HAZARDOUS COMBUSTION PRODUCTS	Thermal decomposition products are hazardous and/or toxic.
LOWER EXPLOSION LIMIT (%)	Not applicable
UPPER EXPLOSION LIMIT (%)	Not applicable
FLASH POINT	> 120 °C

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**6. ACCIDENTAL RELEASE MEASURES**

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SPILL AND LEAK PROCEDURES	Do not allow to enter drains, sewers or watercourses. Adsorb spillages onto sand, earth or any suitable adsorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water.
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For safety and environmental precautions, please review entire Safety Data Sheet for necessary information.

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**7. HANDLING AND STORAGE**

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STORAGE TEMPERATURE	18 - 25 °C
HANDLING/STORAGE	Store at room temperature. Keep containers properly sealed when not in use.
SPECIAL SENSITIVITY	Keep away from heat.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**OCCUPATIONAL EXPOSURE CONTROLS**

VENTILATION REQUIREMENTS	Local exhaust.
EYE PROTECTION REQUIREMENTS	Safety glasses, goggles or face shield to protect against splashing. Personal eye protection should conform to EN 166.
GLOVE REQUIREMENTS	The use of chemically resistant gloves is recommended. Gloves should conform to EN 374.
CLOTHING REQUIREMENTS	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.
WASH REQUIREMENTS	Wash before eating, drinking, or using toilet facilities.
RESPIRATORY REQUIREMENTS	Local exhaust.

**ENVIRONMENTAL EXPOSURE CONTROLS**

Do not allow to enter drains, sewers or watercourses.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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PHYSICAL FORM	Liquid
COLOUR	black
ODOUR	Slight
BOILING POINT	Not determined.
RELATIVE DENSITY	1.5
FLASH POINT	> 120 °C

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**10. STABILITY AND REACTIVITY**

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STABILITY	Stable
CONDITIONS TO AVOID	Elevated temperatures.
MATERIALS TO AVOID	Amines., Acids., Oxidizers.
HAZARDOUS	Carbon monoxide, carbon dioxide, unknown hydrocarbons.
DECOMPOSITION PRODUCTS	

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**11. TOXICOLOGICAL INFORMATION**

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EYE	Will cause eye irritation.
SKIN	Irritating to the skin. Repeated and/or prolonged contact may cause skin sensitisation.
INHALATION	Unlikely to be hazardous by inhalation because of the low vapour pressure of the material at ambient temperature.
INGESTION	No hazard in normal industrial use.

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**CHRONIC (LONG TERM) EFFECTS OF EXPOSURE**

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RESPIRATORY	No.
SENSITIZATION	
CARDIAC SENSITIZATION	No.
SKIN SENSITIZATION	Sensitizer.
POSSIBLE BIRTH DEFECT	No.
HAZARD	
CARCINOGEN	No.
ORAL LD50, SPECIES TESTED	Oral LD50: Rat > 2000 mg/kg
DERMAL LD50, SPECIES TESTED	Dermal LD50: Rat > 2000 mg/kg
INHALATION LC50, SPECIES TESTED	Inhalation LC50 Unknown

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**12. ECOLOGICAL INFORMATION**

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POTENTIAL EFFECT ON ENVIRONMENT	Toxic to aquatic organisms.
AQUATIC TOXICITY	1 - 10 mg/l
PERSISTENCE AND DEGRADABILITY	Not readily biodegradable.
POTENTIAL TO BIOACCUMULATE	The product has high potential for bioaccumulation.

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**13. DISPOSAL CONSIDERATIONS**

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WASTE DISPOSAL METHODS	Waste disposal should be in accordance with existing Community, National and local regulations.
EMPTY CONTAINER WARNINGS	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

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**14. TRANSPORT INFORMATION (See also section 9)**


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IATA CLASSIFICATION	
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains epoxy resin)
HAZARD CLASS	9
SUBSIDIARY HAZARD CLASS	
U.N. NUMBER	UN3082
PACKAGING GROUP	III
IMDG CLASSIFICATION	
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains epoxy resin)
HAZARD CLASS	9
SUBSIDIARY HAZARD CLASS	
U.N. NUMBER	UN3082
PACKAGING GROUP	III
MARINE POLLUTANT	NO
ADR/RID	
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains epoxy resin)
HAZARD CLASS	9
SUBSIDIARY HAZARD CLASS	
U.N. NUMBER	UN3082
PACKAGING GROUP	III
ADR ITEM NUMBER	11

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**15. REGULATORY INFORMATION**

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EC INDICATION OF DANGER	DAANGEROUS FOR THE ENVIRONMENT
EC SYMBOL	HARMFUL 
RISK PHRASES	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R36/38 - Irritating to eyes and skin. R43 - May cause sensitisation by skin contact. R68 - Possible risk of irreversible effects.
SAFETY PHRASES	S61 - Avoid release to the environment. Refer to special instructions/Safety data sheet. S24 - Avoid contact with skin. 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.
CONTAINS	Epoxy resin (number average molecular weight <= 700) Epoxy resin Cresyl glycidyl ether
SPECIAL PHRASES	Contains epoxy constituents. See information supplied by the manufacturer.
EINECS	All components of this product are listed in EINECS or ELINCS, or are otherwise exempt from EU notification requirements.

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**16. OTHER INFORMATION**

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REPLACES VERSION DATED	14/05/2003
ORIGINAL DOCUMENT DATED	17/04/2003
FOR REGULATORY	Linda Desiron
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FULL TEXT OF RISK PHRASES FOR INGREDIENTS INDICATED IN SECTION 2:

Epoxy resin (number average molecular weight $\leq$ 700)	R36/38 - Irritating to eyes and skin. R43 - May cause sensitisation by skin contact. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Epoxy resin	R36/38 - Irritating to eyes and skin. R43 - May cause sensitisation by skin contact. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Cresyl glycidyl ether	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R38 - Irritating to skin. R43 - May cause sensitisation by skin contact. R68 - Possible risk of irreversible effects.

Directives 1999/45/EC and 91/155/EEC have been considered when compiling this SDS; the information is provided for health and safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety, and environmental legislation. This information does not constitute indication of suitability for specific uses.