# SAFETY DATA SHEET

### 1. Identification

**Product identifier** Insulcast 140 FR - Part A

Other means of identification

IE208R SKU# Recommended use Not available. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information **ITW Performance Polymers** Company name **Address** 35 Brownridge Road

Unit 1

Halton Hills, ON L7G 0C6

**Customer Service** Contact person Telephone number 215-855-8450 Fax number 215-855-4688

**Emergency Number** 800-424-9300 (CHEMTREC)

**Supplier** Not available.

### 2. Hazard identification

**Physical hazards** Not classified.

Category 4 **Health hazards** Acute toxicity, dermal

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Sensitization, skin Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2

Label elements



Signal word Warning

**Hazard statement** Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye irritation. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Avoid breathing mist/vapours. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Avoid release to the environment. Wear eye

protection/face protection. Wear protective gloves/protective clothing.

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several Response

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eve irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse. Collect spillage.

Not available. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal** 

Supplemental information 84.14 % of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment.

Other hazards None known.

Material name: Insulcast 140 FR - Part A

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### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aluminium oxide		1344-28-1	60 - 100
Epoxy Resin:reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)	Epoxy resin	25068-38-6	10 - 30
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl] -, polymers		25085-99-8	10 - < 20
Butyl glycidyl ether		2426-08-6	1 - 5
Carbon Black		1333-86-4	0.1 - 1
Other components below reportable	levels		10 - 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical

attention and take along these instructions. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Ingestion

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods General fire hazards No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

### Precautions for safe handling

Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV
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Components	<sup>′</sup> Туре	Value	Form
Butyl glycidyl ether (CAS 2426-08-6)	TWA	3 ррт	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

Components	Туре	Value	
Aluminium oxide (CAS 1344-28-1)	TWA	10 mg/m3	
Butyl glycidyl ether (CAS 2426-08-6)	TWA	16 mg/m3	
		3 ppm	
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m3	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form	
Butyl glycidyl ether (CAS 2426-08-6)	TWA	3 ppm		
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable	

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

Components	Туре	Value	Form
Butyl glycidyl ether (CAS 2426-08-6)	TWA	3 ppm	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.

# Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Type	Value
Aluminium oxide (CAS 1344-28-1)	TWA	10 mg/m3

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# Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Туре	Value	
Butyl glycidyl ether (CAS 2426-08-6)	TWA	133 mg/m3	
		25 ppm	
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m3	

Components	Туре	Value	Form
Butyl glycidyl ether (CAS 2426-08-6)	TWA	3 ppm	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.

# Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

Components	туре	value	FORM	
Aluminium oxide (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.	
Butyl glycidyl ether (CAS 2426-08-6)	TWA	3 ppm		
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable dust.	

# Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

Components	туре	value	
Aluminium oxide (CAS 1344-28-1)	15 minute	20 mg/m3	
Butyl glycidyl ether (CAS 2426-08-6)	15 minute	6 ppm	
	8 hour	3 ppm	
Carbon Black (CAS 1333-86-4)	15 minute	7 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Canada - Alberta OELs: Skin designation

Butyl glycidyl ether (CAS 2426-08-6)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Butyl glycidyl ether (CAS 2426-08-6)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Butyl glycidyl ether (CAS 2426-08-6)

Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Butyl glycidyl ether (CAS 2426-08-6)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Butyl glycidyl ether (CAS 2426-08-6)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Can be absorbed through the skin.

Butyl glycidyl ether (CAS 2426-08-6)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Butyl glycidyl ether (CAS 2426-08-6)

Danger of cutaneous absorption

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

# 9. Physical and chemical properties

Appearance Liquid.

Physical state Liquid.
Form Liquid.
Colour Black.
Odour Slight.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

320 °C (608 °F) estimated

Flash point 129.4 °C (265.0 °F) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit – upper

(%)

Not available.

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density2.42 g/cm3Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

Specific gravity 2.42

### 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

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# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful in contact with skin. Harmful in contact with skin.

Components Species Test Results

Aluminium oxide (CAS 1344-28-1)

<u>Acute</u>

Oral

LD50 Rat > 5000 mg/kg

Butyl glycidyl ether (CAS 2426-08-6)

Acute Dermal

LD50 Rabbit 0.788 g/kg

Carbon Black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 8000 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitisation

**ACGIH** sensitisation

n-Butyl glycidyl ether (BGE) (CAS 2426-08-6)

Dermal sensitisation

Canada - Alberta OELs: Irritant

Aluminium oxide (CAS 1344-28-1) Irritant Carbon Black (CAS 1333-86-4) Irritant

Canada - Manitoba OELs Hazard: Dermal sensitization

Butyl glycidyl ether (CAS 2426-08-6)

Dermal sensitisation

Canada - Quebec OELs: Sensitizer

Butyl glycidyl ether (CAS 2426-08-6) Sensitiser.

Canada - Saskatchewan OELs Hazard Data: Sensitiser

Butyl glycidyl ether (CAS 2426-08-6) Sensitiser.

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

**ACGIH Carcinogens** 

Aluminium oxide (CAS 1344-28-1)

A4 Not classifiable as a human carcinogen.

Carbon Black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Canada - Manitoba OELs: carcinogenicity

Aluminium oxide (CAS 1344-28-1) Not classifiable as a human carcinogen.

Carbon Black (CAS 1333-86-4)

Confirmed animal carcinogen with unknown relevance to humans.

Canada - Quebec OELs: Carcinogen category

Carbon Black (CAS 1333-86-4) Detected carcinogenic effect in animals.

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### IARC Monographs. Overall Evaluation of Carcinogenicity

Butyl glycidyl ether (CAS 2426-08-6) 2B Possibly carcinogenic to humans. Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Carbon Black (CAS 1333-86-4) Known To Be Human Carcinogen.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

Toxic to aquatic life with long lasting effects. **Ecotoxicity** 

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butyl glycidyl ether 0.63

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

### **TDG**

Not regulated as dangerous goods.

#### IATA

UN3082 **UN** number

Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin:--reaction Product Of **UN proper shipping name** 

Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin))

Transport hazard class(es)

9 Class Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN3082 **UN number** 

Material name: Insulcast 140 FR - Part A IE208R Version #: 03 Revision date: 04-August-2023 Issue date: 01-July-2023 **UN** proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin:--reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)), MARINE POLLUTANT

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant Yes F-A, S-F

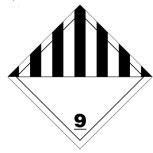
**EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

## 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### **Controlled Drugs and Substances Act**

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto Protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

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#### **Basel Convention**

Not applicable.

Country(s) or region

### **International Inventories**

Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

Inventory name

Taiwan Chemical Substance Inventory (TCSI) Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

### 16. Other information

Issue date01-July-2023Revision date04-August-2023

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**Disclaimer** ITW Performance Polymers cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

Revision information Physical & Chemical Properties: Multiple Properties

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On inventory (yes/no)\*

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).