# SAFETY DATA SHEET

## 1. Identification

Product identifier	Insulcast 140 FR - Part A		
Other means of identification			
SKU#	IE208R		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	er/Distributor information		
Manufacturer			
Company name	ITW Performance Polymers		
Address	130 Commerce Drive		
	Montgomeryville, PA 18936		
	United States		
Telephone	Customer Service	215-855-8450	
Website	www.itwperformancepolyme	rs.com	
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	CHEMTREC	800-424-9300	
	International	703-527-3887	

### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, dermal	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
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/vapors. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing.	
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.	

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash<br/>occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take<br/>off contaminated clothing and wash it before reuse. Collect spillage.Storage<br/>DisposalNot available.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise<br/>classified (HNOC)None known.

### 3. Composition/information on ingredients

## Mixtures

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide		1344-28-1	60 - 100
Epoxy Resin:reaction Product Bisphenol A And Epichlorohydr (refer To Epichlorohydrin)		25068-38-6	10 - 30
BUTYL GLYCIDYL ETHER		2426-08-6	1 - 5
Carbon Black		1333-86-4	0.1 - 1
Other components below report	table levels		10 - 30
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Remove contaminated clothing immediately a advice/attention if you feel unwell. In case of attention and take along these instructions. V	eczema or other skin disorders	s: Seek medical
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ge		
Ingestion	Rinse mouth. Get medical advice/attention if	you feel unwell.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. Skin irritation. May cause redness and Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre under observation. Symptoms may be delaye		m warm. Keep victim
General information	Ensure that medical personnel are aware of t protect themselves. Show this safety data sh clothing before reuse.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	oon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and con	sider the hazards of other invo	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothing not touch damaged containers or spilled mate	g during clean-up. Avoid breat	hing mist/vapors. Do

emergency proceduresnot touch damaged containers or spilled material unless wearing appropriate protective clothing.<br/>Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be<br/>contained. For personal protection, see section 8 of the SDS.Methods and materials for<br/>containment and cleaning upPrevent 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
 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

5 5	
Precautions for safe handling	Avoid breathing mist/vapors. 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**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible E Components	xposure Limits (PEL) for Air ( Type	Contaminants (29 CFR 1910.1 Value	000) Form
Aluminium Oxide (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	PEL	270 mg/m3	
		50 ppm	
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
US. OSHA Table Z-3 Permissible E		-	
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Values	s (TLV)		
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.
NIOSH. Immediately Dangerous to	Life or Health (IDLH) Values,	as amended	
Components	Туре	Value	
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	IDLH	250 ppm	
Carbon Black (CAS 1333-86-4)	IDLH	1750 mg/m3	
US. NIOSH: Pocket Guide to Chem		• • • •	
Components	Туре	Value	
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	Ceiling	30 mg/m3	
		5.6 ppm	

US. NIOSH: Pocket Guide to Components	o Chemical Hazards Recon Type	imended Exposure Limits (REL) Value
Carbon Black (CAS 1333-86-4)	TWA	0.1 mg/m3
Biological limit values	No biological exposure lim	its noted for the ingredient(s).
Exposure guidelines		
US ACGIH Threshold Limit	Values: Skin designation	
BUTYL GLYCIDYL ETH	ER (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 protecti	ve equipment
Eye/face protection	Wear safety glasses with	side shields (or goggles). Face shield is recommended.
Skin protection Hand protection	Wear appropriate chemica	l resistant gloves.
Other	Wear appropriate chemica	l resistant clothing. Use of an impervious apron is recommended.
Respiratory protection Thermal hazards		lation, wear suitable respiratory equipment. protective clothing, when necessary.
General hygiene considerations	and before eating, drinking	onal hygiene measures, such as washing after handling the material g, and/or smoking. Routinely wash work clothing and protective aminants. Contaminated work clothing should not be allowed out of the

# 9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Slight.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	608 °F (320 °C) estimated
Flash point	265.0 °F (129.4 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Density	2.42 g/cm3
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	2.42
10. Stability and reactivi	ity
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 oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological inform	nation
Information on likely routes of	f exposure
Inhalation	Prolonged inhalation may be harmful.

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)				
Acute				
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 irritation	Causes serious eye irritation.			
Respiratory or skin sensitizatio	n			
ACGIH sensitization				
n-Butyl glycidyl ether (BC	GE) (CAS 2426-08-6)	Dermal sensitization		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.			
Skin sensitization	May cause an allergic skin rea	action.		
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 excl	uded with prolonged exposure.		

Carbon Black (CAS 1333-86-4)2B Possibly caOSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.Not listed.US. National Toxicology Program (NTP) Report on Carcinogens Carbon Black (CAS 1333-86-4)Known To BeReproductive toxicityThis product is not expected to cause reproduSpecific target organ toxicity - single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.Aspiration hazardNot classified.Chronic effectsProlonged inhalation may be harmful. Prolong12. Ecological informationToxic to aquatic life with long lasting effects.Persistence and degradabilityNo data is available on the degradability of anBioaccumulative potential Partition coefficient n-octanol / water (log Kow) BUTYL GLYCIDYL ETHER0.63Mobility in soilNo data available.Other adverse effectsNo other adverse environmental effects (e.g. or potential, endocrine disruption, global warming13. Disposal considerationsDisposa instructionsLocal disposal regulationsDispose in accordance with all applicable regulationsLocal disposal regulationsDispose of in accordance with local regulation product secondance with local regulationVaste from residues / unused productsDispose of in accordance with local regulation product secondance with local regulation product secondance with local regulation product secondance with local regulation product residues. This material and its contain Disposal instructions).			
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emptied. Empty containers should be taken to disposal.	is. Empty containers or liners may retain some her must be disposed of in a safe manner (see:		
14. Transport information	residue, follow label warnings even after container is an approved waste handling site for recycling or		
DOT			

Not regulated as dangerous goods.

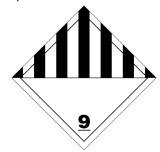
## ΙΑΤΑ

ι	IN number	UN3082
ι	IN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin:reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin))
Т	ransport hazard class(es)	
	Class	9
	Subsidiary risk	-
F	acking group	
E	nvironmental hazards	Yes
E	RG Code	9L
S	pecial precautions for user	Read safety instructions, SDS and emergency procedures before handling.
C	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.

#### IMDG

	UN number	UN3082
	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	-
	Packing group	
	Environmental hazards	
	Marine pollutant	Yes
	EmS	F-A, S-F
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
٦	ransport in bulk according to	Not established.
-	Annex II of MARPOL 73/78 and	
t	he IBC Code	

### IATA; IMDG



### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations	This product is a "Ha:	zardous Chemical" as defined by the OSHA Hazard Communication	
C C	Standard, 29 CFR 1910.1200.		
US EPCRA (SARA Title	III) Section 313 - Toxic	c Chemical: De minimis concentration	
Aluminium Oxide (C	AS 1344-28-1)	% 1.0	
US EPCRA (SARA Title	III) Section 313 - Toxic	c Chemical: Listed substance	
Aluminium Oxide (C	AS 1344-28-1)	Listed.	
Toxic Substances Control A	Act (TSCA)		
TSCA Section 12(b) Exp	oort Notification (40 C	-R 707, Subpt. D)	
Not regulated.			
CERCLA Hazardous Substa	nce List (40 CFR 302.4	4)	
Not listed.			
SARA 304 Emergency relea	se notification		
Not regulated.			
OSHA Specifically Regulate	d Substances (29 CFF	₹ 1910.1001-1053)	
Not listed.			

Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Acute toxicity (any Skin corrosion or i Serious eye dama Respiratory or skir	ge or eye irritation		
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Aluminium Oxide		1344-28-1	60 - 100	
ner federal regulations				
Clean Air Act (CAA) Secti	ion 112 Hazardous Air	r Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Secti Not regulated.	ion 112(r) Accidental I	Release Prevention (40 CF	FR 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.			
state regulations				
(a))	Chemicals List. Safe HER (CAS 2426-08-6)	r Consumer Products Reg	ulations (Cal. Code F	Regs, tit. 22, 69502.3, subd.
Carbon Black (CAS 13	33-86-4)			
Carbon Black (CAS 13 California Proposition 65 WARNING:	33-86-4) This product can expos	se you to Carbon Black, whi nation go to www.P65Warn		te of California to cause
Carbon Black (CAS 13 California Proposition 65 WARNING:	33-86-4) This product can expos cancer. For more inforr		ings.ca.gov.	te of California to cause
Carbon Black (CAS 13 California Proposition 65 WARNING:	33-86-4) This product can expos cancer. For more inforr n 65 - CRT: Listed dat	nation go to www.P65Warn	ings.ca.gov.	te of California to cause
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition	33-86-4) This product can expos cancer. For more inforr n 65 - CRT: Listed dat	nation go to www.P65Warn e/Carcinogenic substance	ings.ca.gov.	te of California to cause
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA	33-86-4) This product can expos cancer. For more inforr n 65 - CRT: Listed dat	nation go to www.P65Warn e/Carcinogenic substance	ings.ca.gov.	
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories	33-86-4) This product can expos cancer. For more inforr n <b>65 - CRT: Listed dat</b> S 1333-86-4) Inventory name	nation go to www.P65Warn e/Carcinogenic substance	ings.ca.gov. a ary 21, 2003	On inventory (yes/no
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories Country(s) or region	33-86-4) This product can expos cancer. For more inforr n 65 - CRT: Listed dat S 1333-86-4) Inventory name Australian Inventor Domestic Substan	nation go to www.P65Warn e/Carcinogenic substance Listed: Februa ry of Industrial Chemicals (A ces List (DSL)	ings.ca.gov. a ary 21, 2003	On inventory (yes/no Ye
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories Country(s) or region Australia	33-86-4) This product can expos cancer. For more inforr n 65 - CRT: Listed dat S 1333-86-4) Inventory name Australian Inventor Domestic Substan	nation go to www.P65Warn <b>e/Carcinogenic substance</b> Listed: Februa ry of Industrial Chemicals ( <i>A</i>	ings.ca.gov. a ary 21, 2003	On inventory (yes/no Ye Ye
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories Country(s) or region Australia Canada	33-86-4) This product can exposion cancer. For more inform <b>n 65 - CRT: Listed dat</b> S 1333-86-4) <b>Inventory name</b> Australian Inventor Domestic Substan Non-Domestic Sub	nation go to www.P65Warn e/Carcinogenic substance Listed: Februa ry of Industrial Chemicals (A ces List (DSL)	ings.ca.gov. a ary 21, 2003 AICIS)	<b>On inventory (yes/no</b> Υε Υε Ν
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories Country(s) or region Australia Canada Canada	33-86-4) This product can exposion cancer. For more inform <b>n 65 - CRT: Listed dat</b> S 1333-86-4) <b>Inventory name</b> Australian Invento Domestic Substan Non-Domestic Sub	nation go to www.P65Warn e/Carcinogenic substance Listed: Februa ry of Industrial Chemicals (A ces List (DSL) ostances List (NDSL) ng Chemical Substances in ry of Existing Commercial C	ings.ca.gov. ary 21, 2003 AICIS) China (IECSC)	On inventory (yes/no Υε Υε Ν Υε
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories Country(s) or region Australia Canada Canada China	<ul> <li>33-86-4)</li> <li>This product can exposizencer. For more inform</li> <li>n 65 - CRT: Listed dat</li> <li>S 1333-86-4)</li> <li>Inventory name</li> <li>Australian Invento</li> <li>Domestic Substan</li> <li>Non-Domestic Sub</li> <li>Inventory of Existin</li> <li>European Invento</li> <li>Substances (EINE</li> </ul>	nation go to www.P65Warn e/Carcinogenic substance Listed: Februa ry of Industrial Chemicals (A ces List (DSL) ostances List (NDSL) ng Chemical Substances in ry of Existing Commercial C	ings.ca.gov. 9 ary 21, 2003 AICIS) China (IECSC) hemical	<b>On inventory (yes/no</b> Υε Υε Ν Υε
Carbon Black (CAS 13 California Proposition 65 WARNING: California Proposition Carbon Black (CA ernational Inventories Country(s) or region Australia Canada Canada China Europe	<ul> <li>33-86-4)</li> <li>This product can exposizancer. For more inform</li> <li>n 65 - CRT: Listed dat</li> <li>S 1333-86-4)</li> <li>Inventory name</li> <li>Australian Inventor</li> <li>Domestic Substan</li> <li>Non-Domestic Sub</li> <li>Inventory of Existin</li> <li>European Inventor</li> <li>Substances (EINE)</li> <li>European List of N</li> </ul>	nation go to www.P65Warn e/Carcinogenic substance Listed: Februa ry of Industrial Chemicals (A ces List (DSL) ostances List (NDSL) ng Chemical Substances in ry of Existing Commercial C CS)	ings.ca.gov. a ary 21, 2003 AICIS) China (IECSC) hemical es (ELINCS)	<b>On inventory (yes/no</b> Υε Υ Ν Υε Ν
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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).

16. Other information, including date of preparation or last revision		
Issue date	06-17-2014	
Revision date	08-04-2023	
Version #	06	

HMIS® ratings NFPA ratings	Health: 2 Flammability: 1 Physical hazard: 1 Health: 2 Flammability: 1 Instability: 1
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