# 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/Supplier/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.itwperformancepolymers.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

Serious eye damage/eye irritation

Sensitization, skin

Category 2

Category 2

Sensitization, skin

Category 1

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

**Environmental hazards** 



Signal word Warning

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

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

**Precautionary statement** 

Prevention Avoid breathing mist/vapor. 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.

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 occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take

off contaminated clothing and wash before reuse. Collect spillage.

Storage Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 96.6% of the mixture consists of component(s) of unknown acute oral toxicity. 99.78% of the

mixture consists of component(s) of unknown acute hazards to the aquatic environment.

## 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<br>Bisphenol A And Epichlorohydrin<br>(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 reportable I  | evels                    |            | 10 - 30  |

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

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

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

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. Ingestion

Most important symptoms/effects, acute and

delayed

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Indication of immediate medical attention and special treatment needed

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

General information

media

Specific hazards arising from

Special protective equipment

the chemical

and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

Use standard firefighting procedures and consider the hazards of other involved materials.

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/vapor. 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.

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

## Precautions for safe handling

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 Limits for Air Components | Туре         | Value     | Form                 |
|--|--------------|-----------|----------------------|
| Aluminium Oxide (CAS 1344-28-1)              | PEL          | 5 mg/m3   | Respirable fraction  |
|  |              | 15 mg/m3  | Total dust.          |
| BUTYL GLYCIDYL ETHER<br>(CAS 2426-08-6)      | PEL          | 270 mg/m3 |                      |
|  |              | 50 ppm    |                      |
| Carbon Black (CAS<br>1333-86-4)              | PEL          | 3.5 mg/m3 |                      |
| US. OSHA Table Z-3 (29 CFR 1910.             | 1000)        |           |                      |
| 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. |
| US. ACGIH Threshold Limit Values             | <b>3</b>     |           |                      |
| Components                                   | Туре         | Value     | Form                 |
| Aluminium Oxide (CAS<br>1344-28-1)           | TWA          | 1 mg/m3   | Respirable fraction  |
| BUTYL GLYCIDYL ETHER<br>(CAS 2426-08-6)      | TWA          | 3 ppm     |                      |
| Carbon Black (CAS<br>1333-86-4)              | TWA          | 3 mg/m3   | Inhalable fraction.  |
| US. NIOSH: Pocket Guide to Chem              | ical Hazards |           |                      |
| Components                                   | Туре         | Value     |                      |
| BUTYL GLYCIDYL ETHER<br>(CAS 2426-08-6)      | Ceiling      | 30 mg/m3  |                      |
|  |              | 5.6 ppm   |                      |
| Carbon Black (CAS<br>1333-86-4)              | TWA          | 0.1 mg/m3 |                      |

**Biological limit values** 

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

**Exposure guidelines** 

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

BUTYL GLYCIDYL ETHER (CAS 2426-08-6)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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.

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SDS US

## Individual protection measures, such as personal protective equipment

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

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.
Color Black.
Odor Slight.

Odor thresholdNot available.pHNot available.Melting point/freezing pointNot 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 explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

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 Not available.

(n-octanol/water)

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

Other information

Density2.42 g/cm3Explosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

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 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials. Strong oxidizing agents.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

# 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.

**Eve 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

BUTYL GLYCIDYL ETHER (CAS 2426-08-6)

<u>Acute</u>

Dermal

LD50 Rabbit 0.788 g/kg

Inhalation

LC50 Rat > 670 mg/l, 8 Hours

Oral

LD50 Rat 2.05 g/kg

Carbon Black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 8000 mg/kg

Skin corrosion/irritation

n/irritation Causes skin irritation.

Causes serious eye irritation.

Serious eye damage/eye irritation

Respiratory or skin sensitization

**ACGIH** sensitization

N-BUTYL GLYCIDYL ETHER (BGE) (CAS 2426-08-6) Dermal sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** 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** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

single exposure

Not classified.

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Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

Prolonged inhalation may be harmful. **Chronic effects** 

12. Ecological information

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

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.

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

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

13. Disposal considerations

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

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.

Dispose in accordance with all applicable regulations. Local disposal regulations

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

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).

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

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

disposal.

# 14. Transport information

Not regulated as dangerous goods.

IATA

**UN number** UN3082

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 Ш Packing group **Environmental hazards** Yes **ERG Code** 91

Other information

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

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 Ш **Environmental hazards** 

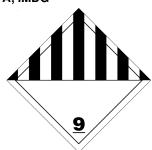
Marine pollutant Yes **EmS** F-A, S-F

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

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

Not established.

IATA; IMDG



## Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

% 1.0

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Aluminium Oxide (CAS 1344-28-1)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Aluminium Oxide (CAS 1344-28-1) Listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Classified hazard

Yes

chemical

Acute toxicity (any route of exposure)
Skin corrosion or irritation

categories

Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Aluminium Oxide1344-28-160 - 100

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US** state regulations

## California Proposition 65



WARNING: This product can expose you to chemicals including Carbon Black, which is known to the State of

California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon Black (CAS 1333-86-4) Listed: February 21, 2003

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Carbon Black (CAS 1333-86-4)

### **International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | 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) | Yes                    |

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

TaiwanTaiwan Chemical Substance Inventory (TCSI)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

## 16. Other information, including date of preparation or last revision

 Issue date
 06-17-2014

 Revision date
 06-30-2018

Version # 03

**HMIS® ratings** Health: 2

Flammability: 1 Physical hazard: 1

NFPA ratings 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.

Material name: Insulcast 140 FR - Part A

<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).

### **Revision information**

Product and Company Identification: Product and Company Identification

Hazard(s) identification: Prevention

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Accidental release measures: Methods and materials for containment and cleaning up

Handling and storage: Precautions for safe handling

Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls/personal protection: Appropriate engineering controls

Stability and reactivity: Conditions to avoid Toxicological information: Inhalation

Ecological information: Persistence / degradability Transport information: General information Regulatory information: California Proposition 65

Other information, including date of preparation or last revision: References Other information, including date of preparation or last revision: Disclaimer

Material name: Insulcast 140 FR - Part A

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