# **ITW** Engineered Polymers

# SAFETY DATA SHEET

## 1. Identification

Product identifier Insulcure 20 - Part B

Other means of identification

SKU# IE313H

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ITW Engineered Polymers
Address 130 Commerce Drive
Montgomeryville, PA 18936

**United States** 

**Telephone** Customer Service 215-855-8450

Website www.itwengineeredpolymers.com

E-mail orders.na@itwep.com
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 Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1
Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious

eye damage. May cause respiratory irritation. Suspected of damaging fertility. Harmful to aquatic

Category 3

life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

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Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** 5% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 5% of the mixture consists of component(s) of unknown long-term hazards to the

aquatic environment.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Modified Polyethylenepolyamine Adducts		N/A	60 - 100
3,6,9-triazaundecamethylenediamin e		112-57-2	5 - 10
4,4'-Isopropylidenediphenol		80-05-7	5 - 10
Diethylenetriamine		111-40-0	1 - 5

<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** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician

if symptoms develop or persist.

**Skin contact**Remove contaminated clothing immediately and wash skin with soap and water. Chemical burns must be treated by a physician. In case of eczema or other skin disorders: Seek medical attention

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

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ingestion

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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 Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn 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 consider the hazards of other involved materials.

**General fire hazards**No unusual fire or explosion hazards noted.

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### 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. Do not breathe mist or 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 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

116	Throchold	Limit Value	_

Components	Туре	Value		
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm		
US. NIOSH: Pocket Guide to Chen	nical Hazards			
Components	Туре	Value		
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3		
,		1 ppm		
US. Workplace Environmental Exp	oosure Level (WEEL) Guides			
Components	Type	Value	Form	
3,6,9-triazaundecamethylen ediamine (CAS 112-57-2)	TWA	5 mg/m3	Aerosol.	
,		1 ppm	Aerosol.	

**Biological limit values** 

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

**Exposure guidelines** 

US - California OELs: Skin designation

Diethylenetriamine (CAS 111-40-0) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Diethylenetriamine (CAS 111-40-0) Skin designation applies.

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

Diethylenetriamine (CAS 111-40-0) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Diethylenetriamine (CAS 111-40-0) Can be absorbed through the skin.

**US WEEL Guides: Skin designation** 

3,6,9-triazaundecamethylenediamine (CAS 112-57-2) Can be absorbed through the skin.

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### 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Other Wear appropriate chemical resistant clothing.

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

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

Liquid. **Appearance** Physical state Liquid. **Form** Liquid. Color Amber Ammoniacal.

Odor **Odor threshold** Not available. Hq Not available. Melting point/freezing point Not available. > 320 °F (> 160 °C)

Initial boiling point and boiling

range

Flash point

> 200.0 °F (> 93.3 °C)

**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.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure < 1 mm Hg Not available. Vapor density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity Not available.

Other information

8.10 lb/gal Density

Combustible IIIB estimated Flammability class

Specific gravity 0.97 VOC (Weight %) 0

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# 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. Hazardous polymerization does not occur. Possibility of hazardous

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Strong acids. Alkaline metals. Peroxides. Phenols. Incompatible materials Hazardous decomposition No hazardous decomposition products are known.

products

# 11. Toxicological information

#### Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Causes severe skin burns. May cause an allergic skin reaction. Skin contact

**Eve contact** Causes serious eye damage. Causes digestive tract burns. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

# Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction. May cause respiratory irritation.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eve damage/eve

irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Suspected of damaging fertility. Specific target organ toxicity -May cause respiratory irritation.

single exposure

Specific target organ toxicity -

**Aspiration hazard** 

Not classified.

repeated exposure

Not an aspiration hazard.

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

## 12. Ecological information

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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

3,6,9-triazaundecamethylenediamine 1.503 4,4'-Isopropylidenediphenol 3.32

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.

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# 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.

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).

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

DOT

**UN number** UN2735

UN proper shipping name Amines, liquid, corrosive, n.o.s, (Diethylenetriamine)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Packing group Ш

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

Special provisions IB3, T7, TP1, TP28

154 Packaging exceptions Packaging non bulk 203 Packaging bulk 241

**IATA** 

UN2735 **UN number** 

UN proper shipping name Amines, liquid, corrosive, n.o.s. (Diethylenetriamine)

Transport hazard class(es)

8 Class Subsidiary risk Ш Packing group **Environmental hazards** No. 8L **ERG Code** 

Other information

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

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

**IMDG** 

**UN number** UN2735

UN proper shipping name Transport hazard class(es)

AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine)

Class 8 Subsidiary risk Ш **Packing group Environmental hazards** 

> Marine pollutant No. F-A. S-B

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 Not established.

the IBC Code

Material name: Insulcure 20 - Part B



IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern

4,4'-Isopropylidenediphenol (CAS 80-05-7)

Bisphenol A Action Plan

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

4,4'-Isopropylidenediphenol (CAS 80-05-7)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

4,4'-Isopropylidenediphenol (CAS 80-05-7)

% 1.0

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

4,4'-Isopropylidenediphenol (CAS 80-05-7) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
4,4'-Isopropylidenediphenol	80-05-7	5 - 10

#### Other federal regulations

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

4,4'-Isopropylidenediphenol (CAS 80-05-7)

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

Not regulated.

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Not regulated.

(SDWA)

#### US state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

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

(a))

4,4'-Isopropylidenediphenol (CAS 80-05-7)

### **US. Massachusetts RTK - Substance List**

3,6,9-triazaundecamethylenediamine (CAS 112-57-2)

4,4'-Isopropylidenediphenol (CAS 80-05-7)

Diethylenetriamine (CAS 111-40-0)

### US. New Jersey Worker and Community Right-to-Know Act

3,6,9-triazaundecamethylenediamine (CAS 112-57-2)

4,4'-Isopropylidenediphenol (CAS 80-05-7)

Diethylenetriamine (CAS 111-40-0)

# US. Pennsylvania Worker and Community Right-to-Know Law

3,6,9-triazaundecamethylenediamine (CAS 112-57-2)

4,4'-Isopropylidenediphenol (CAS 80-05-7)

Diethylenetriamine (CAS 111-40-0)

### **US. Rhode Island RTK**

4,4'-Isopropylidenediphenol (CAS 80-05-7)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### 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
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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

Toxic Substances Control Act (TSCA) Inventory

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

 Issue date
 06-27-2014

 Revision date
 09-09-2015

Version # 02

United States & Puerto Rico

HMIS® ratings Health: 3\*

Flammability: 1 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 3

Flammability: 1 Instability: 0

Material name: Insulcure 20 - Part B

Yes

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).

#### **Disclaimer**

ITW Engineered 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 in the sheet was written based on the best knowledge and experience currently available.

#### **Revision Information**

Product and Company Identification: Product and Company Identification

Accidental release measures: Environmental precautions Physical & Chemical Properties: Multiple Properties

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

GHS: Classification

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