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1. SECTION 1: Identification of the substance/mixture and of the company/ undertaking.

1.1. Product Identifier

Product Name: IEX-TU
 EC Number: Not available.
 CAS Number: Not available.
 Product Description: Not available.
 Product Type: Solid.
 Other means of Identification: Not available.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

1.3. Details of the supplier of the safety data sheet

IEX Technologies Ltd
 Process Unit 5
 Wilton Centre
 Wilton
 Redcar
 TS10 4RF

E-mail address of person responsible for the is MSDS:

steve.colley@iexconsultants.org

1.4. Emergency Telephone Number

Supplier
 Telephone number: +44(0)7713066622
 Hours of operation: 24 hours


2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition: Mono-constituent substance
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
 Not classified.

Classification according to Directive 67/548/EEC [DSD]
 Not classified.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

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2.2. Label elements

Hazard pictograms: None.
Signal word: No signal words.
Hazard statements: No known significant effects or critical hazards.

Precautionary statements

Prevention Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Annex XVII- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.
Tactile warning of danger: Not applicable.

2.3. Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:
Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:
Not applicable.


Other hazards which do not result in classification:
Not applicable.

3. SECTION 3: Composition/information on ingredients

3.1 Substances

Substances: Mono-constituent substance

Product / Ingredient Name	Identifiers.	%	Classification 67/548/EEC	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Modified Polystyrene Resin with Thiourea Functionality.	-	99-100	Not classified.	Not classified.	A

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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent

[B] Impurity

[C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

4. SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.


4.2. Most important symptoms and effects, both acute and delayed

4.2.1. Potential acute health effects

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

4.2.2. Over-exposure signs/symptoms

Eye contact:	No specific data.
Inhalation:	No specific data.

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Skin contact: No specific data.

Ingestion: No specific data.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific treatment.

Specific treatments: No specific treatment.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing: None known.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials:

- 1) carbon dioxide
- 2) carbon monoxide

5.3. Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.


Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: None identified.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

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protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains precautions and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and materials for containment and cleaning up

Small spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4. Reference to other

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. SECTION 7: Handling and storage


The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1. Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

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Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end use(s)

Recommendations: Not available.
Industrial sector specific solutions: Not available.

8. SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1. Control parameters

8.1.1. Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.


DNELs/DMELs: No DNELs/DMELs available.
PNECs: No PNECs available.

8.2. Exposure controls

Appropriate engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products,

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before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.


Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state:	Solid. [Powder.]
Colour:	Off-white.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.

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Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility(ies):	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water.	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not applicable.
Viscosity:	Not applicable.
Explosive properties:	Not available.
Oxidising properties:	Not available.
Minimum ignition energy (mJ):	Not available.

9.2. Other information

No additional information.

10. SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid


No specific data.

10.5. Incompatible materials

No specific data.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute Toxicity

Conclusion/Summary: Not available.

11.1.2. Irritation/Corrosion

Conclusion/Summary: Not available.

11.1.3. Sensitisation

Conclusion/Summary: Not available.

11.1.4. Mutagenicity

Conclusion/Summary: Not available.

11.1.5. Carcinogenicity

Conclusion/Summary: Not available.

11.1.1. Reproductive Toxicity

Conclusion/Summary: Not available.

11.1.2. Teratogenicity

Conclusion/Summary: Not available.

11.1.3. Specific target organ toxicity (single exposure)

Not available.

11.1.4. Specific target organ toxicity (repeated exposure)


Not available.

11.1.5. Aspiration hazard

Information on the likely routes of exposure: Not available.

11.1.6. Potential acute health effects

Eye contact: No known significant effects or critical hazards.

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Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

11.1.7. Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

11.1.8. Short term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

11.1.9. Long term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

11.1.10. Potential chronic health effects

Not available.

11.1.11. Conclusion/Summary

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Other information: Not available.
Other adverse symptoms: No known significant effects or critical hazards.


12. SECTION 12: Ecological information

12.1. Toxicity

Product / Ingredient Name	Result	Species	Exposure
-	-	-	-

Conclusion/Summary: Not available.

12.2. Persistence and Degradability

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Product / Ingredient Name	Test	Result	Dose / Inoculum
-	-	-	-

Conclusion/Summary: Not available.

Product / Ingredient Name	Aquatic Hals-lift	Photolysis	Biodegradability
-	-	-	-

Conclusion/Summary: Not available.

12.3. Bioaccumulative potential

Product / Ingredient Name	LogP _{ow}	BCF	Potential
-	-	-	-

Conclusion/Summary: Not available.

12.4. Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.
Mobility: Not available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: P: Not available. B: Not available. T: Not available.
Not applicable. vP: Not available. vB: Not available.
No known significant effects or critical hazards.

12.6. Other adverse effects

No known significant effects or critical hazards.


13. SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1. Waste treatment methods

13.1.1. Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Return accumulated waste material to the refinery for metal recovery, or dispose of in

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accordance with local and national regulations.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

13.1.2. Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.


Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1. UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2. UN Proper shipping name.	-	-	-	-
14.3. Transport hazard class(es)	-	-	-	-
14.4. Packing group	-	-	-	-
14.5. Environmental Hazards	No.	No.	No.	No.
Additional Information	-	-	-	-

14.6. Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that people transporting the product know what to do in the event of an accident or spillage.

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14.7. Transport in bulk according to Annex II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

15. SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

15.1.1. EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV- List of substances subject to authorization

Annex XIV: None of the components are listed.

Substances of very high concern: None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

15.1.2. Other EU regulations

Europe inventory: Not determined.

Seveso II Directive: This product is not controlled under the Seveso II Directive.

15.1.3. International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals: Not listed.

Montreal Protocol (Annexes A, B, C, E): Not listed.

Stockholm Convention on Persistent Organic Pollutants: Not listed.

Rotterdam Convention on Prior Inform Consent (PIC): Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals: Not listed.

15.1.4. International lists

National inventory

Australia: Not determined.

Canada: Not determined.

China: Not determined.

Japan: Not determined.

Malaysia: Not determined.

New Zealand: Not determined.

Philippines: Not determined.


Republic of Korea: Not determined.

Taiwan: Not determined.

United States: United States inventory (TSCA 8b): Not determined.

15.2. Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

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16. SECTION 16: Other information

16.1. Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration


RRN = REACH Registration Number

16.2. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Full text of abbreviated H statements:	Not applicable.
Full text of classifications [CLP/GHS]:	Not applicable.
Full text of abbreviated R phrases:	Not applicable.
Full text of classifications [DSD/DPD]:	Not applicable.
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Version:	0.02

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