Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 United Kingdom (UK)





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

1.1 Product identifier	
Product name	: IEX-iDA
EC number	: Not available.
CAS number	: Not available.
Product description	: Not available.
Product type	: Powder.
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 theis MSDS

steve.colley@iexconsultants.org

1.4 Emergency telephone number

Supplier

Telephone number : +44(0)7713066622

Hours of operation : 24 hours

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) 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] Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 (Respiratory tract irritation) The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. Classification according to Directive 67/548/EEC [DSD] Xn; R20/22 Xi; R36/37/38 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.

SECTION 2: Hazards identification

2.2 Label elements

Classification	: Not classified.
Precautionary statements Prevention Response	: Wear protective gloves. Wear eye or face protection. Avoid breathing dust.
	: Store locked up.
Storage	: Not applicable.
Disposal	

Hazardous ingredients	: Not Applicable
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex Special packaging requirements	c II - United Kingdom (UK)
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	: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.1 Substances	: Mono-constitu	: Mono-constituent substance			
			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Modified Silica Gel with Imino Functionality	-	95 - 100	Not Classified	Not Classified	A

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] Stabilising additive

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Conforms to Regulation (EC) N Eye contact	 Io. 1907/2006 (REACH), Annex II - United Kingdom (UK) Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention is symptoms occur.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention is symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention is symptoms occur.
Ingestion	: Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention is symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.3 Indication of any immediate medical attention and special treatment needed			
Notes to physician	÷		
Specific treatments	: No specific treatment.		

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing media : 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: carbon dioxide 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.	

SECTION 6: Accidental release measures

6.1 Personal precautions, prote	ective equipment and emergency procedures	
For non-emergency personnel For emergency responders	 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. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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". 	
	dispersal of spilt material and runoff and contact with soil, waterways, drains orm 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.	
6.4 Reference to other sections	 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. 	

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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

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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

 7.3 Specific end use(s)

 Recommendations
 : Not available.

 Industrial sector specific
 : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

solutions

Occupational exposure limits

Product/ingredien	t name	Exposure limit values
No exposure limit known.		
Recommended monitoring procedures	atmosphere or t effectiveness of use respiratory	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the the ventilation or other control measures and/or the necessity to protective equipment. Reference should be made to monitoring as the following: European Standard EN 689 (Workplace
	atmospheres - (agents for comp Standard EN 14 procedures for t European Stand (Workplace atm procedures for t	Guidance for the assessment of exposure by inhalation to chemical parison with limit values and measurement strategy) European .042 (Workplace atmospheres - Guide for the application and use of he assessment of exposure to chemical and biological agents)
DNELs/DMELs No DNELs/DMELs available.	will also be requ	iired.
PNECs No PNECs available		
8.2 Exposure controls Appropriate engineering controls	ventilation or ot contaminants be	dequate ventilation. Use process enclosures, local exhaust her engineering controls to keep worker exposure to airborne low any recommended or statutory limits.
Individual protection measure Hygiene measures	: Wash hands, fo before eating, period. Approp contaminated o	prearms and face thoroughly after handling chemical products, smoking and using the lavatory and at the end of the working riate techniques should be used to remove potentially clothing. Ensure that eyewash stations and safety showers are prkstation location.

Conforms to Regulation (FC) No	. 1907/2006 (REACH), Annex II - United Kingdom (UK)	
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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles. 	
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
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.	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	÷	Solid. [Powder.] Off-
Colour	÷	white.
Odour	1	Characteristic.
Odour threshold	:	Not available.
рН	1	Not applicable.
Melting point/freezing point	:	Not available.
Initial boiling point and	:	Not available.
boiling range		
Flash point	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or	:	Not available.
explosive limits		
Vapour pressure	÷	Not available.
Vapour density	:	Not available.
Relative density	:	Not available.
Solubility(ies)	1	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/	÷	Not available.
water		
Auto-ignition temperature	4	Not available.
Decomposition temperature	÷	Not available.
Viscosity	1	Not applicable.
Explosive properties	:	None identified.
Oxidising properties	:	Not available.
Minimum ignition energy (mJ)	:	Not available.

9.2 Other information

No additional information.

SECTION 10: Stabilit	y 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	: Avoid the creation of dust when handling and avoid all possible sources of ignition
	(spark or flame). Take precautionary measures against electrostatic discharges. To
	avoid fire or explosion, dissipate static electricity during transfer by earthing and
	bonding containers and equipment before transferring material. Prevent dust
	accumulation.
10.5 Incompatible materials	: Oxidising materials.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sensitisation				

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary	: Based on available data, the classification criteria are not met.
<u>Carcinogenicity</u> Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity Conclusion/Summary	: Based on available data, the classification criteria are not met.
<u>Teratogenicity</u> Conclusion/Summary	: Based on available data, the classification criteria are not met.
One officient engen to visity (sing	

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of	Target organs
		exposure	

Conforms to Regulation (EC) N	o. 1907/2006 (REACH), An	nex II - United Kin	gdom (UK)		
Specific target organ toxicity	(repeated exposure)	·		•	
Not available.					
Aspiration hazard Not availab	le.				
Information on the likely	Not available.				
routes of exposure					
Potential acute health effects					
Eye contact: Exposure to airbor irritation to eyes.	ne concentrations above sta	tutory or recomme	nded exposure lim	iits may cause	

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation to nose, throat and lungs.

Skin contact : No know significant effects.

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.

Ingestion : No know significant effects.

Symptoms related to the physical, chemical and toxicological characteristics				
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation			
Skin contact	 Adverse symptoms may include the following: irritation redness dryness cracking No specific data. 			

Ingestion Delayed and immediate effect exposure Potential delayed effects <u>Potential chronic health</u> <u>effects</u> Not available.	ets and also chronic effects from short and long term exposure Short term : Not available.
Conclusion/Summary	: Not available.
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
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 Other adverse symptoms	: Not available. : No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
onclusion/Summary	: Not available.		

Conclusion/Summary

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half- life	Photolysis	Biodegradability

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential

12.4 Mobility in soil	: Not available.	
Soil/water partition		
coefficient (Koc)		
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.		
12.6 Other adverse effects			
	: No known significant effects or critical hazards.		

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 meth Product	ods
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 accordance with local and national regulations.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) 14.7 Transport in bulk : Not available. according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

SECTION 15: Regul	latory information			
15.1 Safety, health and env	ironmental regulations/legislation specific for the substance or mixture			
EU Regulation (EC) No. 19	907/2006 (REACH)			
	tances subject to authorisation			
	Annex XIV			
-	None of the components are listed.			
	Substances of very high concern			
•	None of the components are listed.			
Annex XVII - Restrictions : Not applicable.				
on the manufacture, placing on the market and use of certain dangerous substances,				
mixtures and articles				
Other EU regulations				
Europe inventory	: Not determined.			
Seveso II Directive				
This product is not controlle	ed under the Seveso II Directive.			
International regulations				
Chemical Weapon Conve	ntion 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.				
	on POPs and Heavy Metals			
Not listed.				
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	: This product contains substances for which Chemical Safety Assessments are still			
Assessment	required.			

SECTION 16: Other information

Abbreviations and acronyms

ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

QuadraSil MP (Eco grade)

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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.
Date of printing	:15/10/2010
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