

Safety Data Sheet



Product name:

Ionex Type AG700


Safety Data Ref: 47

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Version number: 1

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier Ionex Type AG700
1.2	Relevant use(s)/misuse(s) Adsorbent
1.3	SDS supplier Molecular Products Ltd, Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK
1.4	Emergency contact (global) +44 (0)1279 445111 (office hours) / +44 (0)1865 407333 (24 hour emergency number, English speaking) trevor@rising-hsande.co.uk (competent person email)
	Emergency contact (other) China +86 512 8090 3042, China (NRCC): +86 532 8388 9090, Mexico: +52 555 004 8763, Chile: +56 225 829 336, Brazil: +55 11 3197 5891

2 HAZARDS IDENTIFICATION	
2.1	Classification of the substance or mixture
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)
	Eye Irrit. 2 H319
2.1.2	Classification according to EC 67/548/EEC and 1999/45/EC
	Not classified
2.1.3	See section 16 for full text of H and R phrases
2.2	Labelling elements
2.2.1	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)
	Pictogram  Signal word WARNING
	Hazard statements
	H319 Causes serious eye irritation
	Precautionary statements
	P281 Use personal protective equipment as required P337+313 If eye irritation persists: Get medical advice/attention
2.3	Other hazards
	The product contains a substance that has a workplace exposure limit (WEL)

3 COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical characterisation	Silver ion-exchange resin			
Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
Sulfonated divinylbenzene / styrene copolymer ion exchange resin	39389-20-3	Not assigned	CLP: Eye Irrit. 2 H319	<60%
Silver nitrate	7761-88-8	231-8533-9	H 272 Ox Solid 2, H314 Skin corrosive 1B, H400 Aquatic acute 1, H410 Aquatic Chronic 1 (M factor 1000)	<15%
The silver is chemically bound to the resin and is not biologically available				

4 FIRST AID MEASURES	
4.1	Description of measures
	Inhalation Remove casualty to fresh air. If necessary, seek medical advice
	Skin contact Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice
	Eye contact Wash out eye thoroughly with plenty of water until irritation subsides; if necessary consult an eye specialist/ophthalmologist
	Ingestion If product is swallowed, rinse mouth thoroughly with water– do not induce vomiting
4.2	Most important effects/symptoms None known
4.3	Immediate/special treatment Treat symptomatically

5 FIRE FIGHTING MEASURES	
5.1	Extinguishing media To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder)
5.2	Special hazards Silver resins, when exposed to water, may cause water to boil; flood with water to avoid this
5.3	Advice for fire fighters Self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions	Adhere to personal protective measures. Avoid inhalation of dust
6.2	Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once
6.3	Methods and materials for cleaning up	In the event of spillage, take up into tightly closed containers, ideally using grounded vacuum to prevent static discharge. Adhere to personal protective measures. Label container and dispose of as prescribed
6.4	Reference to other sections	See section 8 for personal protective equipment

7 HANDLING AND STORAGE		
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Keep away from incompatible materials. Avoid dust formation and build-up of electrostatic charge
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry
7.3	Specific end use(s)	Impregnated adsorbent

8 EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1 Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011)					
	LTEL (8 hours)	ppm	0.01	mg/m ³	Silver (soluble compounds as AG)
8.2 Exposure controls					
	Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation)			
	Personal protection	Observe normal standards for handling chemicals Wash hands before breaks and after work. Avoid raising dust Wear personal protective equipment appropriate to the task (see below)			
	Eye protection	Chemical goggles or safety glasses with side shields			
	Skin protection	Rubber gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)			
	Respiratory protection	NIOSH Approved dust respirator if conditions are dusty			
	Other protection	Protective overalls			

9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1 Basic physical and chemical properties				
	Physical form	Beads	Colour	White to grey
	Odour	Odourless	pH	Not determined
	Boiling pt/range	Not applicable	Melting pt/range	Not determined
	Flash point	Not applicable	Relative density	0.85-2.0 g/ml
	Water solubility	Insoluble	Odour threshold	Not determined
	Evaporation rate	Not applicable	Flammability	Non-flammable
	Explosion limits	Not applicable	Vapour pressure	Not applicable
	Vapour pressure	Not applicable	Partition coeff. LogPoct/water	Not applicable
	Auto-ignition temperature	Not applicable	Viscosity	Not applicable
	Explosive properties	Not determined	Oxidising properties	Not determined
	Decomposition temperature	Not determined		
9.2 Other information				
	None known			

10 STABILITY AND REACTIVITY		
10.1	Reactivity	Stable under normal conditions of handling
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	Heat - high temperatures can cause decomposition
10.5	Incompatible material	Strong oxidizers, water/moisture (possible heat generation)
10.6	Hazardous decomposition products	Acrid smoke and irritating fumes - oxides of silver aromatic compounds, hydrocarbons, organic sulfonates, silver oxide

11 TOXICOLOGICAL INFORMATION		
11.1 Information on toxicological effects		
	Acute toxicity	LD ₅₀ rat (oral) > 5,000 mg/kg
	Dermal compatibility	No data available
	Mucous membrane	No data available – might cause eye irritation
	Further information	None known

12 ECOLOGICAL INFORMATION						
12.1	Toxicity	LC ₅₀	Aquatic organisms		mg/l	Not determined
12.2	Degradability	Not determined	12.3	Bioaccumulative potential	Not expected to bioaccumulate	
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable	
12.6	Other adverse effects	None known				

13 DISPOSAL CONSIDERATIONS	
Advice on disposal	If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Material is a special waste under UK legislation
Contaminated packaging	Treat empty containers in the same way as the product. If possible wash out thoroughly and recycle

14 TRANSPORT INFORMATION					
14.1	United Nations number (ADR, IMDG, IATA)	Not classified	14.2	Proper shipping name (ADR, IMDG, IATA)	Not classified
14.3	Transport class(s) (ADR, IMDG, IATA)	Not classified	14.4	Packing group (ADR, IMDG, IATA)	Not classified
14.5	Environmental hazards (ADR, IMDG, IATA)	Not classified	14.6	Special procedures (ADR, IMDG, IATA)	Not applicable
14.7	Transport in bulk	Not applicable			

15 REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations	In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP) the product is not classified. Other regulatory information and provisions are not applicable for this product
15.2	Chemical safety assessment	Not applicable

16 OTHER INFORMATION	
Further information	The SDS has been prepared in accordance with EC Regulation 1272/2008 (CLP)
Hazard statements	
H271	May intensify fire: oxidiser
H314	Causes severe skin burns and serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Comply with COSHH Regulations	
Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011)
Date of issue	07/01/2016
This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific problems	