

Safety Data Sheet



Product name:

Ionex Type AG400



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Issue: 1

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Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758
Prepared according to GB CLP which is the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

1		SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	Substance name: Ionex Type AG400 EC No.: None CAS No.: 130328-18-6 Index No.: None REACH Registration No.: None
	Unique Formula Identifier (UFI)	5M00-E0G4-Q00Q-IUFH
1.2	Relevant identified uses of the substance or mixture and uses advised against	Relevant identified uses: Adsorbent Uses advised against: Keep dry, avoid becoming saturated with water Reason why uses advised against: Strong exothermic reaction can bring water to boiling point.
1.3	Details of the supplier of the safety data sheet	Molecular Products Ltd Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK +44 (0)1279 445111 (I) sds@molprod.com (I) Only available during office hours 0900 – 1700 GMT
1.4	Emergency telephone number	+44 1865 407333 (24-hour, English speaking) +86 532 8388 9090 (China NRCC) +52 555 004 8763 (Mexico) +56 225 829 336 (Chile) +55 11 3197 5891 (Brazil)

2		SECTION 2: HAZARDS IDENTIFICATION	
2.1		Classification of the substance or mixture	
2.1.1		Classification according to Regulation (EC) No 1272/2008 (CLP)	
		H361d: Reprotoxic. Cat. 2 H400: Aquatic Acute I (M = 100)	
2.2		Label elements	
2.2.1		Labelling in accordance with EC Regulation No 1272/2008 (CLP)	
Hazard pictogram	 	Signal word	Warning
Hazard statements	H361d: Suspected of damaging the unborn child. H400: Very toxic to aquatic life.		
Precautionary statements	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P308+P313: IF exposed or concerned: Get medical advice/attention. P391: Collect spillage. P405: Store locked up. P501: Dispose of contents into a suitable container		
Supplemental Hazard information (EU):	None		
2.3		Other hazards	
		No data	

3		SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS			
3.1		Substances			
	Substance name	CAS no.	EC No	Weight % content (or range)	SCL, M-factor, ATE
	Silver-exchanged Zeolite	130328-18-6	None	<=100%	M factor = 100

4		SECTION 4: FIRST AID MEASURES
4.1		Description of first aid measures
	General notes	

	Following inhalation	Remove casualty to fresh air. If necessary, seek medical advice
	Following skin contact	Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice
	Following eye contact	Wash out eye thoroughly with plenty of water until irritation subsides; if necessary, consult an eye specialist/ophthalmologist
	Following ingestion	If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice
	Self-protection of the first aider	For emergency responders: Adhere to personal protective measures and avoid inhalation of dust
4.2	Most important symptoms and effects, both acute and delayed	None known
4.3	Indication of any immediate medical attention and special treatment needed	Treat Symptomatically

5 SECTION 5: FIRE FIGHTING MEASURES		
5.1	Extinguishing media	Suitable extinguishing media: To suit local surroundings (e.g. water, carbon dioxide, foam or chemical powder) Unsuitable extinguishing media: No data
5.2	Special hazards arising from the substance or mixture	Inhalation of decomposition products may be harmful Avoid release of firefighting water to environment Hazardous combustion products: None known
5.3	Advice for fire fighters	Water plus silver zeolites can cause water to boil. Non-flammable Use water stream to cool containers. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe

6 SECTION 6: ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions, protective equipment and emergency procedures	For non-emergency personnel: - Protective equipment: Adhere to personal protective measures - Emergency procedures: Avoid inhalation of dust For emergency responders: Adhere to personal protective measures and avoid inhalation of dust
6.2	Environmental precautions	Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once
6.3	Methods and materials for containment and cleaning up	For containment: For cleaning up: Use only non-sparking tools. Take up with sand, earth or other non-combustible absorbent material. Collect spills and put it into appropriate container. Other information: Avoid dust production
6.4	Reference to other sections	See section 8 for personal protective equipment

7 SECTION 7: HANDLING AND STORAGE		
7.1	Precautions for safe handling	Protective measures: Handle in accordance with good hygiene and safety practice. Keep away from incompatible materials. Avoid build-up of static charge in handling equipment. Avoid breathing dust Measures to prevent fire: Keep away from ignition sources Measures to prevent aerosol and dust generation: vacuum up and keep area clean Measures to protect the environment: keep sealed in original container Advice on general occupational hygiene: No data
7.2	Conditions for safe storage, including any incompatibilities	Technical measures and storage conditions: Keep in dry conditions in original container Packaging materials: No data Requirements for storage rooms and vessels: Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry
7.3	Specific end use(s)	Recommendations: As an adsorbent Industrial sector specific solutions: No data

8 SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION									
8.1	Control Parameters								
	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005) (4 th ed. 2020)								
	TWA (8 hour)	0.01	mg/m ³			Dust (inhalable)			
	TWA (8 hour)	No data	mg/m ³			Dust (respirable)			
	Substance name	Silver (soluble compounds as Ag)							
	EC number	-	CAS number			-			
	DNELs								
		Workers				Consumers			
	Route of exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects
	Oral	Not required				No data	No data	No data	No data
	Inhalation	No data	No data	No data	No data	No data	No data	No data	No data
	Dermal	No data	No data	No data	No data	No data	No data	No data	No data
	PNECs								

	Environmental protection target	PNEC
	Fresh water	No data; highly toxic in the aquatic compartment.
	Freshwater sediments	No data
	Marine water	No data
	Marine sediments	No data
	Food chain	No data
	Microorganisms in sewage treatment	No data
	Soil (agriculture)	No data
	Air	No data
8.2	Exposure controls	
	Appropriate engineering controls	Substance/mixture related measures to prevent exposure during identified uses: No data Structural measures to prevent exposure: Provide adequate ventilation (e.g. local exhaust ventilation) Organisational measures to prevent exposure: No data Technical measures to prevent exposure: Local exhaust ventilation.
	Personal protection equipment	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 and face protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
	Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Body protection, impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
	Respiratory protection	For nuisance exposures use type P1 (EU EN 143) particle respirator. For higher level protection use type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
	Thermal hazards	This material, when exposed to water, can become hot and heat water to boiling point. Flood with water to reduce the temperature.
	Environmental exposure controls	Substance/mixture related measures to prevent exposure: Keep tightly seal in original container Instruction measures to prevent exposure: No data Organisational measures to prevent exposure: No data Technical measures to prevent exposure: No data

9	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Information on basic physical and chemical properties			
	Physical state	Granular solid (1-2 mm)	Colour	Yellow / beige
	Odour	Odourless	pH	Not applicable
	Boiling pt/range	Not determined	Melting point/freezing point	>500°C
	Flash point	Not applicable	Relative density	0.85 – 1.0
	Water solubility	Insoluble	Decomposition temperature	Not determined
	Evaporation rate	Not applicable	Flammability	Non-flammable
	Lower and upper explosion limit	Not applicable	Vapour pressure	Not applicable
	Relative vapour density	Not applicable	Partition coeff. Log Poct/water	Not applicable
	Auto-ignition temperature	Not applicable	Kinematic viscosity	Not applicable
	Explosive properties	Not determined	Oxidising properties	Not determined
	Particle characteristics	Not determined	Odour threshold	Not determined
9.2	Other information	None known		

10	SECTION 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	Possibility of hazardous reactions	None known
10.4	Conditions to avoid	Moisture. Strong reducing agents
10.5	Incompatible materials	Contact with water. High temperature. Moisture. Strong reducing agents.
10.6	Hazardous decomposition products	Acrid smoke and irritating fumes, Metal oxides

11 SECTION 11: TOXICOLOGICAL INFORMATION							
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008							
	Hazard class	Method	Species	Route of exposure	Effective dose	Exposure time	Results
	Acute toxicity	LD ₅₀	Rat	oral	No data	No data	No data available
	Skin corrosion/irritation	No data available					
	Serious eye damage/irritation	Might be slightly irritating to eyes					
	Respiratory or skin sensitisation	No data					
	Germ cell mutagenicity	No data					
	Carcinogenicity	No data					
	Reproductive toxicity	Classified as reprotox Cat. 2					
	Summary of evaluation of the CMR properties	This substance is regarded as reprotoxic.					
	STOT-single exposure	No data					
	STOT-repeated exposure	No data					
	Aspiration hazard	No data					
11.2 Information on other hazards							
	Cancer suspected agent (Quartz)						

12 SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	
Acute (short-term) toxicity:	Fish: classified as Aq. Acute I Crustacea: No data Algae/aquatic plants No data Other organisms: No data
Chronic (long-term) toxicity	Fish: No data Crustacea: No data Algae/aquatic plants No data Other organisms No data
12.2 Persistence and degradability	Abiotic Degradation: No data Physical- and photo-chemical elimination: No data Biodegradation: No data
12.3 Bioaccumulative potential	Partition coefficient n-octanol /water (log Kow): No data Bioconcentration factor (BCF): No data
12.4 Mobility in soil	Known or predicted distribution to environmental compartments: No data Surface tension: No data Adsorption/Desorption: No data
12.5 Results of PBT and vPvB assessment	Not applicable
12.6 Endocrine disrupting properties	Not regarded as an EDC
12.7 Other adverse effects	None known

13 SECTION 13: DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
Product/ Packaging 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. Treat empty containers in the same way as the product. If possible, wash out thoroughly and recycle
Waste treatment-relevant information	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Sewage disposal-relevant information	No data
Other disposal recommendations	Contaminated packaging, dispose of as unused product.

14 SECTION 14: TRANSPORT INFORMATION					
14.1	UN number or ID number	Not classified	14.2	UN proper shipping name	Not classified
14.3	Transport hazard class(es)	Not classified	14.4	Packing group	Not classified
14.5	Environmental hazards	The product should not be marked as a marine pollutant	14.6	Special procedures for user	Not applicable
14.7	Maritime transport in bulk according to IMO instruments	Not applicable			

