

Safety Data Sheet



Product name:

Ionex Type Zn100Safety Data Ref: 45
Issue date: 20 July 2015
Version number: 1

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier Ionex Type Zn100
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) Not classified (see section 1.6)
2.1.2	See section 1.6 for full text of H statements
2.2	Labelling elements
2.2.1	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)
	Pictogram None
	Signal word None
	Hazard statements None
	Precautionary statements None
2.3	Other hazards
	The preparation contains a substance that has a workplace exposure limit (WEL)

3 COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical characterisation	Mixture of inorganic substances			
Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
Zinc oxide	1314-13-2	215-222-5	Aquatic Acute 1 H400; Aquatic Chronic 1 H410. (see section 10.4)	<8%
Silicon oxide	7631-86-9	231-545-4	Not classified	<65%
Aluminium oxide	1344-28-1	215-619-6	Not classified (WEL assigned)	<30%
Sodium oxide	1313-59-3	215-208-9	Not classified	<30%
Potassium oxide	12135-45-7	235-227-6	Not classified	<6%
Quartz	14808-60-7	238-878-4	Not classified (WEL assigned)	<3%

4 FIRST AID MEASURES	
4.1	Description of measures
	Inhalation Remove casualty to fresh air and provide warmth and rest
	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, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice
4.2	Most important effects/symptoms None known
4.3	Immediate/special treatment Treatment as described above

5 FIRE FIGHTING MEASURES	
5.1	Extinguishing media To suit local surroundings (e.g. chemical powder, carbon dioxide, dry sand)
5.2	Special hazards When exposed to water, zeolites can become hot and heat to the boiling point of water. Flooding with water will reduce the temperature to safe limits
5.3	Advice for fire fighters Self-contained breathing apparatus may be required

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 mechanically (e.g. sweep or vacuum up) into tightly closed containers. 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. Avoid the raising and deposition of dust
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry, avoiding incompatible substances (section 10.5)
7.3	Specific end use(s)	Adsorbent

8 EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1 Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011)					
	LTEL (8 hour TWA)	ppm	0.1	mg/m ³	Data for quartz (silica, respirable crystalline)
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 inhalation of dust if raised Wear personal protective equipment appropriate to the task (see below)			
	Eye protection	Safety goggles if risk of eye contamination			
	Skin protection	Rubber gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)			
	Respiratory protection	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient			
	Other protection	Protective overalls			

9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1 Basic physical and chemical properties				
	Physical form	Extrudate	Colour	White to grey
	Odour	Odourless	pH	12-14
	Boiling pt/range	Not determined	Melting pt/range	Not determined
	Flash point	Not applicable	Relative density	0.85-1.0
	Water solubility	Slight	Odour threshold	Not applicable
	Evaporation rate	Not applicable	Flammability	Not applicable
	Explosion limits	Not applicable	Vapour pressure	Not applicable
	Vapour pressure	Not applicable	Partition coeff. LogP _{oct} /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 - contact with water or moisture as heat can be generated. Under extreme pH conditions, zinc ions could be released
10.5	Incompatible material	Strong reducing agents, water
10.6	Hazardous decomposition products	Possibly metal oxides

11 TOXICOLOGICAL INFORMATION			
11.1 Information on toxicological effects			
	Acute toxicity	LD ₅₀ rat (oral)	No data available
	Dermal compatibility	No data available	
	Mucous membrane	No data available	
	Further information	None known	

12 ECOLOGICAL INFORMATION					
12.1	Toxicity	LC ₅₀	Aquatic organisms		No data available
12.2	Degradability	Not determined	12.3	Bioaccumulative potential	Not determined
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
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)	The product should not be marked as a marine pollutant	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	The SDS has been updated in accordance with EC Regulation No 1272/2008 (CLP/GHS)
15.2	Chemical safety assessment	Not applicable

16 OTHER INFORMATION	
Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP) The zinc oxide is ionically bound to the Zeolite and is not released into the environment
	Comply with COSHH Regulations
Hazard statements referred to in sections 2/3	
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011)
Date of issue	20/07/2015
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	