

Safety Data Sheet



Product name:

Ionex Type OP Catalyst

Safety Data Ref: 49
Initial issue date: 24 January 2016
Revision date:
Version number: 1

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier Ionex Type OP Catalyst
1.2	Relevant use(s)/misuse(s) As a catalyst
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
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 product has a Workplace Exposure Limit (WEL)

3 COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical characterisation	Carbon			
Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
Hydrous ferric oxide (diiron trioxide)	1309-37-1	215-168-2	CLP: Not classified	100%

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, 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 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 The product may give rise to hazardous fumes in a fire
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, add damp sand and take up mechanically (e.g. sweep or vacuum up) using non-spark tools into tightly closed containers. Adhere to personal protective measures. Label container and dispose of as prescribed. Do not sweep up dry dust because of risk of ignition
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 build-up of static charge in handling equipment. Avoid breathing dust
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)	As a catalyst

8 EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011)				
	TWA (8 hours)	ppm	10	mg/m ³	Rouge (inhalable)
	TWA (8 hours)	ppm	4	mg/m ³	Rouge (respirable)
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	Granule	Colour	Black to dark red
	Odour	Odourless	pH	Not applicable
	Boiling pt/range	Not determined	Melting pt/range	Not determined
	Flash point	Not applicable	Relative density	1.23
	Water solubility	insoluble	Odour threshold	Not determined
	Evaporation rate	Not applicable	Flammability	Not applicable
	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
10.5	Incompatible material	Hydrazine, calcium hypochlorite, performic acid
10.6	Hazardous decomposition products	Acrid smoke and irritating fumes

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	This product is not expected to cause long-term adverse health effects, any mutagenic effects or reproductive or developmental health effects

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)	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	In accordance with 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 revised in accordance with EC Regulation 1272/2008 (CLP)
		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	24/01/2016
	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	