

Safety Data Sheet



Product name:

Sofnocat 423

Safety Data Ref: 53
Initial issue date: 26 May 2020
Revision date: N/A
Version number: 1

Section 1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY		
1.1	Product identifier	Sofnocat 423
1.2	Relevant use(s) /misuse(s)	Precious metal catalyst on support
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) sds@molprod.com (email)
	Emergency contact (other)	China (NRCC): +86 532 8388 9090, Mexico: +52 555 004 8763, Chile: +56 225 829 336, Brazil: +55 11 3197 5891

Section 2 HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture		
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)	Classified: Skin Sens. 1 H317, STOT RE2:H373	
2.1.3	Additional information - none		
2.2	LABELLING ELEMENTS		
2.2.1	Labelling in accordance with EC Regulation No 830/2015 (CLP/GHS):		
	Pictogram(s)	Classified	Signal word
	Hazard statements	H317 May cause an allergic skin reaction H373 Causes damage to organs through prolonged or repeated exposure	Warning
	Precautionary Statements	P260 Do not breathe dust/fume/gas/mist/vapours/spray P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection P302 +P352 IF ON SKIN: wash with plenty of soap and water. P333 +P313: If skin irritation or rash occurs: Get medical advice/attention	
2.3	Other hazards		
	Dust may cause irritation of eyes, skin, nose and throat. Contains substances that have been assigned a Workplace Exposure Limit (WEL)		

Section 3 COMPOSITION / INFORMATION ON INGREDIENTS					
	Chemical characterisation	Mixture of inorganic substances			
	Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
	Platinum	7440-06-4	231-116-1	Not classified	<2%
	Palladium	7440-05-3	231-115-6	Not classified	<6%
	Tin (IV) oxide	18282-10-5	242-159-0	Not classified	<50%
	Nickel (II) Nitrate	13138-45-9	236-068-5	Ox.Sol 2 H272 Acute Tox 4 H302 Skin Irrit 2 H315 Eye Dam,1 H318 Skin Sens.1 H317 (conc limit >0.01%) Acute tox 4 H332	<0.6%

				Resp.Sens.1 H334 Muta.2 H341 STOT RE 1 H372 (STOT RE 2:H373 conc limit 0.1-1%) Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Carc.1A H350i Repr.1B H360D	
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Section 4		FIRST AID MEASURES
4.1	Description of measures	
	Inhalation	Remove casualty to fresh air and provide warmth and rest. Seek medical advice
	Skin contact	Clean areas of skin affected with soap and plenty of water for 15 mins, Seek medical advice
	Eye contact	Wash out eye thoroughly with plenty of water for at least 15 mins or until irritation subsides. If necessary, consult an eye specialist/ophthalmologist
	Ingestion	If swallowed, do NOT induce vomiting. Drink plenty of water and, if necessary, seek medical advice
4.2	Most important effects/symptoms	Causes eye burns. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
4.3	Immediate/special treatment	Treatment as described above

Section 5		FIRE FIGHTING MEASURES
5.1	Extinguishing media	Water, Foam, CO ₂ , powder are all suitable
5.2	Special hazards	Material is non-combustible. Packaging may be combustible
5.3	Advice for fire fighters	Self-contained breathing apparatus may be required

Section 6		ACCIDENTAL RELEASE MEASURES
6.1	Personal precautions	Adhere to personal protective measures Avoid inhaling dust. Avoid skin and eye contact
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

Section 7		HANDLING AND STORAGE
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice, avoid dust formation and wear suitable PPE.
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)	See section 1.2

Section 8		EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011)				
	TWA (8 hours)	ppm	5	mg/m ³	Data for Platinum metal
	TWA (8 hours)	ppm	2	mg/m ³	Data for Tin compounds (as Sn)
	STEL (15 mins)	ppm	4	mg/m ³	Data for Tin compounds (as Sn)
	TWA (8 hours)	ppm	0.1	mg/m ³	Data for Nickel and its inorganic compounds water-soluble nickel compounds (as Ni)
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 contact with skin and eyes. 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 EN166
	Skin protection	Rubber gloves (consider your own risk assessment, e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken) EN 374
	Respiratory protection	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient
	Other protection	Protective overalls

Section 9	PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Basic physical and chemical properties			
	Physical form	Granules, pellets, beads, monoliths	Colour	Grey or black
	Odour	Odourless	pH	Not determined
	Boiling pt/range	Not determined	Melting pt/range	Not determined
	Flash point	Not applicable	Relative density	Not determined
	Water solubility	Insoluble		
9.2	Other information	None		

Section 10	STABILITY AND REACTIVITY		
10.1	Reactivity	Heat is generated when exposed to materials which oxidise easily in air	
10.2	Chemical stability	Stable under normal conditions of handling	
10.3	Hazardous reactions	None known	
10.4	Conditions to avoid	Materials which oxidise easily in air	
10.5	Incompatible material	None known	
10.6	Hazardous decomposition products	None known	

Section 11	TOXICOLOGICAL INFORMATION:			
11.1	Information on toxicological effect No data on finished product			
	Acute toxicity	NICKEL NITRATE :Classified harmful if swallowed		
	Skin corrosion/irritation	NICKEL NITRATE::Classified as Causes skin irritation		
	Serous eye damage/irritation	NICKEL NITRATE; Classified as Causes serious eye irritation		
	Respiratory or skin sensitisation	NICKEL NITRATE: Classified as May cause an allergic skin reaction:		
	Germ cell mutagenicity	NICKEL NITRATE: Classified as suspected of causing genetic defects		
	carcinogenicity	NA		
	Reproductive toxicity	NA		
	STOT-single exposure	NA		
	STOT-repeated exposure	NICKEL NITRATE: Causes damage to organs through repeated exposure		
	Aspiration hazard			
	Other information	Material has low order of toxicity by ingestion		

Section 12	ECOLOGICAL INFORMATION				
	Information on ecotoxicity effects on finished product not available None of the components classified for the environment				
12.1	Toxicity	LC ₅₀	Aquatic organisms	mg/l	No data available
12.2	Degradability	Not determined	12.3	Bio-accumulative potential	Not determined
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable
12.6	Other adverse effects	Do not allow to get into waste water or waterways. If this occurs, inform the relevant water authority at once			

Section 13 DISPOSAL CONSIDERATIONS		
13.1	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

Section 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			

Section 15 REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations	The product is classified in accordance with EC Regulation 830/2015 (CLP). Other regulatory information and provisions are not applicable for this product
15.2	Chemical safety assessment	Not applicable

Section 16 OTHER INFORMATION		
	Further information	The SDS has been revised in accordance with EC Regulation 830/2015 (CLP)
		Comply with COSHH Regulations
	Sources of data	Other suppliers' safety data sheets, EH40 (2011) ECHA Registration Dossier and Annex VI of CLP (EC 1272/2008)
	Prepared by	Dr Patricia Wormald, Molecular Products, PW@molprod.com
	Date of issue	26 May 2020
		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