

Safety Data Sheet



Product name: Sofnocat 423	Initial issue date: 26 May 2020 Revision date: 12 Feb 2021 Version number: 2
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Section 1		IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY
1.1	Product identifier	Sofnocat 423
	Unique Formula Identifier (UFI)	Not applicable as this substance is not classified for health or physical hazards
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: 400 120 6011, 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)	Not classified		
2.1.2	This product is defined as a "special mixture" where the properties of the metals, metal oxides and the inorganic metal substances are modified by inclusion within the matrix of the mixture. As such, it does not present a hazard to human health and according to Annex I of Regulation (EC) No. 1272/2008, labelling is not required.			
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	None	None	
	Precautionary Statements	None		
2.3	Other hazards			
	Dust may cause irritation of eyes, skin, nose and throat. Contains substances that have been assigned a Workplace Exposure Limit			

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	<
	Palladium	7440-05-3	231-115-6	Not classified	<
	Tin (IV) oxide	18282-10-5	242-159-0	Not classified	<5
	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 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 Repro.1B H360D	<0.6%

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	
6.1.1	For non-emergency personnel	Adhere to personal protective measures. Avoid inhaling dust. Avoid skin and eye contact
6.1.2	For emergency responders	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient
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 cleaning up	
6.3.1	Containing a spill	This is a solid substance and containment is not required.
6.3.2	Cleaning-up of spill	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	
7.1.1	Advice on safe handling	
7.1.2	General occupational hygiene	Do not to eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
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)	Precious metal catalyst

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
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	Although this substance is not classified, it is advisable to wear gloves. Use gloves tested to EN ISO 374-1/Type C			
	Respiratory protection	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient			
	Other protection	Protective overalls			

8.2.1	Appropriate engineering controls		
		Provide adequate ventilation (e.g. local exhaust ventilation)	
8.2.2	Individual protection measures, such as personal protective equipment		
		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)	
8.2.2.1	Information on use of personal protective equipment		
		This substance is not classified. However, good housekeeping and general care in handling all chemicals should be observed.	
a	Eye/face protection		
		Wear safety goggles if there is a risk of eye contamination	
b	Skin protection		
		Wash hands before breaks and after work	
i	Hand protection		
		Although this substance is not classified, it is advisable to wear gloves. Use gloves tested to EN ISO 374-1/Type C	
ii	other		
		No information	
c	Respiratory protection		
		Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient	
d	Thermal hazards		
		None	
8.2.3	Environmental exposure controls		
		This substance is a solid used as a catalyst. Release to the environmental compartment is highly unlikely.	

Section 9		PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Basic physical and chemical properties			
	Physical state	Granules, pellets, beads, monoliths	Decomposition temperature	Not applicable
	Colour	Grey or black	pH	Not determined
	Odour	Odourless	Viscosity	Not applicable
	Melting pt/range	Not determined	Water solubility	Insoluble
	Boiling pt/range	Not determined	Partition coefficient (log (Kow))	Not applicable
	Flammability	Not applicable	Vapour pressure	Not applicable
	Lower and upper explosion limit	Not applicable	Relative density	Not determined
	Flash point	Not applicable	Relative vapour density	Not applicable
	Auto-ignition temperature	Not applicable	Particle characteristics	Not applicable
9.2	Other information			
9.2.1	Information with regard to physical hazard classes			
		Not applicable		

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		
	Acute toxicity	Not determined	
	Skin corrosion/irritation	No data available	
	Serous eye damage/irritation	No data available	
	Respiratory or skin sensitisation	No data available	
	Germ cell mutagenicity	No data available	
	carcinogenicity	No data available	
	Reproductive toxicity	No data available	
	STOT-single exposure	No data available	
	STOT-repeated exposure	No data available	
	Aspiration hazard	No data available	
	Other information	No data	

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	
	Changes made to this version	Section 1.1 Addition of line for Unique Formula Identifier (UFI) Section 6.1.1 Addition of new section for non-emergency personnel Section 6.1.2 Addition of section for emergency responders Section 6.3.1 Addition of section about spill containment Section 6.3.2 Addition of section on spill clean-up	
	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	02 Feb 2021	
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			