Safety Data Sheet

Product name:
Brass Starter

Safety Data Ref: 30
Initial issue date: 17/10/14
Revision date: 10/09/2018
Version number: 6

molecular

Section 1	IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier	Brass starter
1.2	Relevant use(s)/misuse(s)	Initiator mechanism
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 +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

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	See section 16 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			
	None known			

Section 3	COMPOSITION / INFORMATION ON INGREDIENTS				
	Chemical characterisation	An article containing red phosphorus, ground glass and glue			
	Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
	Phosphorus (red) **	7723-14-0	231-768-7	CLP: Flam. Sol 1 H228; Aquatic Chronic 3 H412	< 0.1% w/w

Section 4	FIRST AID MEASURES	
4.1	Description of measures	
	Inhalation	Not a normal route of exposure
	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	There is little risk to health unless large quantities >10 match heads are ingested
4.3	Immediate/special treatment	Treatment as described above

Section 5	FIRE FIGHTING MEASURES	
5.1	Extinguishing media	Water only suitable. Do not use foam
5.2	Special hazards	May cause fire or explosion in contact with combustible materials. Containers near heat source should be removed or cooled with water
5.3	Advice for fire fighters	Self-contained breathing apparatus, boots and gloves may be required

Section 6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions	Adhere to personal protective measures. Avoid inhalation of dust and skin and eye contact with active head material
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) 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

Section 7	HANDLING AND STORAGE	
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Avoid direct sunlight or heat and do not drop. Keep away from organic, oxidising combustible materials and strong acids
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry, avoiding direct sunlight
7.3	Specific end use(s)	As a safety match, phosphorus match, oxygen generator initiator

Section 8	EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1	No OEL data are available. Comply with good practice	
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 Wear personal protective equipment appropriate to the task (see below)
	Eye protection	Normally not required
	Skin protection	Normally not required (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
	Respiratory protection	Approved dust mask (recommended if handling large quantities)
	Other protection	Protective overalls

Section 9	PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Basic physical and chemical properties			
	Physical form	Material on the end of a metal part	Colour	Brick red
	Odour	Odourless	pH	Not applicable
	Decomposition pt/range	Approx. 300°C	Melting pt/range	Approx. 200°C
	Flash point	Not applicable	Relative density	Not applicable
	Water solubility	Slight	Odour	Not applicable
	Evaporation rate	Not applicable	Flammability	Not applicable
	Explosion limits	Not applicable	Vapour pressure	Not applicable
	Vapour density	Not applicable	Partition coeff. LogPoct/water	Not applicable
	Auto-ignition temperature	Not applicable	Viscocity	Not applicable
	Explosive properties	Not determined	Oxidising properties	Not determined
	Decomposition temperature	Not determined	9.2 Other information	Strongly oxidising

Section 10	STABILITY AND REACTIVITY	
10.1	Reactivity	Material decomposes to produce oxides of phosphorous on heating or ignition
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	Ignition can be caused by friction or impact. Can burn if fuels, oxidising or organic materials are present
10.5	Incompatible material	As above
10.6	Hazardous decomposition products	Oxides of phosphorous

Section 11	TOXICOLOGICAL INFORMATION		
11.1	Information on toxicological effects		
	Acute toxicity	LD_{50} rat (oral)	Very little data for red phosphorus available
	Dermal compatibility	No data available	
	Mucous membrane	No data available	

Section 12	ECOLOGICAL INFORMATION					
12.1	Toxicity	LC_{50}	Aquatic organisms		mg/l	Not applicable
12.2	Degradability	Not applicable	12.3	Bioaccumulative potential	Not applicable	
12.4	Mobility in soil	Not applicable	12.5	PBT/vPvB assessment	Not applicable	
12.6	Other adverse effects	None known				

Section 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

Section 14	TRANSPORT INFORMATION				
14.1	United Nations number (ADR, IMDG, IATA)	Not applicable	14.2	Proper shipping name (ADR, IMDG, IATA)	Not classified
14.3	Transport class(s) (ADR, IMDG, IATA)	Not applicable	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 SDS has been updated in accordance with EC Regulation No 1272/2008 (CLP/GHS)
15.2	Chemical safety assessment	Not applicable

Section 16	OTHER INFORMATION	
	Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)
		Comply with COSHH Regulations
	Hazard statements referred to in sections 2/3	
	H228	Flammable solid
	H412	Harmful to aquatic life with long lasting effects
	Contains 0.1g phosphorous amorphous (UN1338) per initiator. Exempt from regulation as per IATA 2.6.10 'De Minimis'	
	Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011)
	Date of issue	10/09/2018
	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	