SAFETY DATA SHEET



AUSTSAW ALUMINIUM SAW BLADE

SHEFFIELD GROUP Catalogue number: ALYC* Version No: 1.2 Issue date: 07/02/2023 Safety Data Sheet according to WHS and ADG requirements.

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier		
Product name	AUSTSAW ALUMINIUM SAW BLADE	
Synonyms	None	
Other means of identification	Not Available	
Relevant identified uses of	the substance or mixture and uses advised against	
Relevant identified uses	Sawing aluminium	
Details of the supplier of the	e safety data sheet	
Registered company name	SHEFFIELD GROUP	
Address	111 Munibung Rd Boolaroo 2284 NSW Australia	
Telephone	+61 2 4957 8787	
Fax	+61 2 4957 3737	
Website	www.sheffield.com.au	
Email	sales@sheffield.com.au	
Emergency telephone num	Emergency telephone number	
Association / Organisation	Poisons Information Centre	
Emergency telephone numbers	13 1126	
Other emergency telephone numbers	Not Available	

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
GHS Classification	Acute toxicity (Inhalation) Category 2, Carcinogenicity Category 1B, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, Reproductive toxicity Category 1B,
	Classification drawn from HCIS and ECHA C&L Inventory.

Label elements

Hazard pictograms	
SIGNAL WORD	DANGER
Hazard statement(s)	
H330	Fatal if inhaled.
H350i	May cause cancer by inhalation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H360F	May damage fertility.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P271	Use only outdoors or in a well-ventilated area.
P284	Wear respiratory protection
P260+P261	Do not breathe dust /fumes/vapours /Avoid breathing dust / fumes /vapours
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required.
P272	Contaminated work clothing should not be allowed out of the workplace.
Precautionary statement(s) Response	

P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.	
P302+P352+P333+P313	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
Precautionary statement(s) Storage		
P403+P233+P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

P501 Dispose of contents / container in accordance with local regulations

Substances

See section below for composition of mixtures.

Precautionary statement(s) Disposal

Mixtures

CAS No	%[weight]	Name
12070-12-1	>60	tungsten carbide
7440-48-4	<10	cobalt

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	Generally, not applicable.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	Immediately obtain medical advice/attention If breathing difficulties are experienced, remove person from contaminated area. If patient feels unwell seek medical advice / attention
Ingestion	Generally, not applicable.

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media			
Extinguishing media	Metal dust fires need to be smothered with sand, inert dry powders. DO NOT USE WATER, CO2 or FOAM.		
Special hazards arising fro	n the substrate or mixture.		
Fire incompatibilities	Reacts with acids producing flammable / explosive hydrogen (H2) gas		
Advice for firefighters			
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) as well as full fire protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area.		

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/ersion	No:	1.2	

Fire/Explosion Hazard	DO NOT disturb burning dust. Explosion may result if dust is stirred into a cloud, by providing oxygen to a large surface of hot metal. DO NOT use water or foam as generation of explosive hydrogen may result. Metal powders, while generally regarded as non-combustible: May burn when metal is finely divided and energy input is high. May react explosively with water. May be ignited by friction, heat, sparks or flame. May REIGNITE after fire is extinguished. Will burn with intense heat.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Not applicable
Major Spills	Do not use compressed air to remove metal dusts from floors, beams or equipment Vacuum cleaners, of flame-proof design, should be used to minimise dust accumulation. Use non-sparking handling equipment, tools and natural bristle brushes. Do not allow chips, fines or dusts to contact water, particularly in enclosed areas.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke.
Other information	Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container	Packaging as provided by the manufacturer
Storage incompatibility	Cobalt: reacts violently with acetylene, ammonium nitrate, hydrogen peroxide (90%), organic peroxides forms explosive mixture with potassium perchlorate is incompatible with dilute hydrochloric acid, cold sulfuric acid is capable of promoting the decomposition of many organic materials

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	tungsten carbide	Tungsten, insoluble compounds (as W)	5 mg/m3	10 mg/m3	Not Available	Not Available
Australia Exposure Standards	cobalt	Cobalt, metal dust & fume (as Co)	0.05 mg/m3	Not Available	Not Available	Sen

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
tungsten carbide	tungsten carbide	sten carbide 11 mg/m3		120 mg/m3	730 mg/m3
cobalt	cobalt	0.18 g/m3		2 mg/m3	20 mg/m3
Ingredient	Original IDLH N.E. mg/m3 / N.E. ppm		Revised IDLH		
tungsten carbide			10 mg/m3		
cobalt	20 mg/m3		20 [Unch} mg/m3		

Exposure controls

Appropriate engineering controls	Good housekeeping practices must be maintained.	
Personal protection		

Eye and face protection

Safety glasses with side shields.

Skin protection	See Hand protection below	
Hands/feet protection	Wear elbow length protective gloves NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watchbands should be removed and destroyed.	
Body protection	See Other protection below	
Other protection Respiratory protection, overalls.		
Thermal hazards	Not Available	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Saw blade		
Physical state	Article	Relative density (Water = 1)	Not applicable
Odour	Not applicable	Viscosity (cSt)	Not applicable
Odour threshold	Not applicable	Auto-ignition temperature(°C)	Not applicable
pH (as supplied)	Not applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not applicable	Partition coefficient n-octanol / water	Not applicable
Initial boiling pointand boiling range (°C)	Not applicable	Surface Tension (dyn/cm or mN/m)	Not applicable
Flash point (°C)	Not applicable	Taste	Not applicable
Evaporation rate	Not applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not applicable
Upper Explosive Limit (%)	Not Applicable	Molecular weight (g/mol)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not applicable
Vapour pressure (kPa)	Not applicable	Gas group	Not applicable
Solubility in water (g/L)	Not applicable	pH as a solution (1%)	Not applicable
Vapour density (Air = 1)	Not applicable	VOC g/L	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Not applicable
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	There is some evidence that the material may cause a sensitising reaction in susceptible individuals. There is evidence that inhalation may cause cancer. Unlikely to occur Unlikely to occur	
Ingestion		
Skin Contact		
Eye		
Chronic Inhaling or skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.		

Toxicological effects of ingredients

Cobalt	Acute toxicity	Oral LD50 550mg/kg Inhalation LC100 < 0.05mg/L
	Skin corrosion/irritation	Not irritating
	Eye damage/irritation	Irritating
	Respiratory/skin sensitization	Sensitising
	Germ cell mutagenicity	Not mutagenic
	Carcinogenicity	Carcinogenic by inhalation
	Reproductive toxicity	May damage fertility
	STOT (single exposure)	May cause respiratory irritation
	STOT (repeated exposure)	May cause damage to organs through prolonged or repeated inhalation.
	Aspiration toxicity	Not applicable

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
	No Data available for all ingredients	No Data available for all ingredients		
Bio accumulative p	otential			
Ingredient	Bioaccumulation	Bioaccumulation		
	No Data available for all ingredients	No Data available for all ingredients		
Mobility in soil				
Ingredient	Mobility	Mobility		
	No Data available for all ingredients	No Data available for all ingredients		

SECTION 13 DISPOSAL CONSIDERATIONS

۷	Waste treatment methods			
	Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations		

SECTION 14 TRANSPORT INFORMATION

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

TUNGSTEN CARBIDE (12070-12-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC) Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemical

COBALT (7440-48-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC) Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

SECTION 16 OTHER INFORMATION

Revision Schedule		
Revision Date	07/02/2023	
Initial Date	29/03/2017	

SDS Version Summary

Version	Issue Date	Sections Updated
1.1	29/03/2017	All sections originated
1.2	07/02/2023	Section 2, 4, 5, 11, 16.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA;	Permissible Concentration-Time Weighted Average		
PC-STEL:	Permissible Concentration-Short Term Exposure Limit		
IARC:	International Agency for Research on Cancer		
ACGIH:	American Conference of Government Industrial Hygienists		
STEL:	Short Term Exposure Limit		
TEEL:	Temporary Emergency Exposure Limit		
IDLH:	Immediate Danger to Life or Health Concentrations		
OSF:	Odour Safety Factor		
NOAEL:	No Observed Effects Level		
TLV:	Threshold Limit Value		
LOD:	Limit Of Detection		
OTV:	Odour Threshold Value		
BCF:	Bio Concentration Factors		
BEI:	Biological Exposure Index		

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End of SDS