

SAFETY DATA SHEET

PRODUCT NAME: CATALYST

DWS Product Code: A00022, A00075, A00106, A02130, A03120, A08198

Date of preparation: 23rd May 2017

Supersedes version dated: 17th March 2017

1. Identification of the substance / mixture and of the company / undertaking										
1.1 Product Identifier	Product name: Catalyst DWS product codes: A00022, A00075, A00106, A02130, A03120, A08198									
1.2 Relevant identified uses of the substance or mixture and uses advised against	Used for catalytic removal of oxygen from anaerobic workstations. For laboratory use only.									
1.3 Details of the supplier of the safety data sheet	Don Whitley Scientific Limited, Victoria Works, Victoria Street, Bingley, West Yorkshire, BD16 2NH, United Kingdom.									
1.4 Emergency telephone number:	+44 (0)1274 595728 [0900-1700 UK time].									
2. Hazards identification										
2.1 Classification of the substance or mixture	Classification according to Regulation (EC) NO 1272/2008: The substance is not classified according to the CLP regulation. Information concerning particular hazards for human and environment: Not applicable.									
2.2 Label elements										
2.3 Other hazards										
3. Composition / information on ingredients										
3.2 Mixtures	<table border="1"> <thead> <tr> <th>Component</th> <th>CAS registry no</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>Palladium</td> <td>7440-05-03</td> <td>0.5%</td> </tr> <tr> <td>Alumina</td> <td>1344-28-1</td> <td>99.5%</td> </tr> </tbody> </table>	Component	CAS registry no	Concentration	Palladium	7440-05-03	0.5%	Alumina	1344-28-1	99.5%
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Palladium	7440-05-03	0.5%								
Alumina	1344-28-1	99.5%								
4. First aid measures										
4.1 Description of first aid measures	<p>Inhalation: Move to fresh air. If necessary seek medical advice.</p> <p>Skin contact: Wash with soap and water</p> <p>Eye contact: IMMEDIATELY rinse with plenty of water for at least 15 min with eye lids open</p> <p>Ingestion: Rinse mouth with water. Drink plenty of water</p> <p>After swallowing: Seek immediate medical advice</p>									
4.2 Most important symptoms and effects, both acute and delayed	In dust form, slightly irritating to eyes and respiratory system									

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4.3	Indication of any immediate medical attention and special treatment needed	None recommended.
5. Firefighting measures		
5.1	Extinguishing media:	The product is not combustible.
5.2	Special hazards arising from the substance or mixture	None.
5.3	Advice for firefighters	All extinguishing agents may be used.
6. Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with eyes. Do not breathe dust.
6.2	Environmental precautions	Prevent product from reaching sewers streams or water sources.
6.3	Methods and material for containment and cleaning up	Sweep up or vacuum up. Place in plastic bags and dispose of in accordance with local regulations.
6.4	Reference to other sections	Refer to section 8 of SDS.
7. Handling and storage		
7.1	Precautions for safe handling	Do not transport or store with organic or flammable substances. Handle with care to avoid abrasion or breakage. Avoid formation of dust.
7.2	Conditions for safe storage, including any incompatibilities	Keep containers tightly closed and store in a dry, cool and ventilated area.
7.3	Specific end use(s)	No data available.
8. Exposure controls / personal protection		
8.1	Control parameters	Workplace Exposure Limits: <u>Alumina (aluminium oxide)</u> <u>State</u> <u>mg/m3</u> Austria MAK 5 (dust) Belgium MAK 5 Denmark TWA 10 (AI) France VME 10 Germany MAK 6 Norway TLV 2 (AI) Sweden TWA 4 (AI) United Kingdom TWA 10 (total inhalable dust) 4 (respirable dust) USA PEL 15 (total dust) 5 (respirable fraction) ACGIH TLV 10 (Not classified as human carcinogen) <u>Palladium Compounds</u> <u>State</u> <u>mg/m3</u> Germany MAK 0.002
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure sufficient ventilation of the work area.

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8.2.2	Individual protection measures, such as personal protective equipment	Respiratory protection: Dust mask. Protection of hands: Protective gloves. Eye protection: Safety spectacles. Hygiene measures: After contact, wash hands and face with soap and warm water.
9. Physical and chemical properties		
9.1	Information on basic physical properties and chemical properties	
(a)	Appearance:	3 mm diameter x 3 mm high cylinders.
(b)	Odour:	None.
(c)	Form:	Pellets
(d)	pH:	Not applicable.
(e)	Melting point:	> 2000°C.
(f)	Boiling point:	Not applicable.
(g)	Bulk density:	Approx 1.0 Kg/l.
(h)	Solubility:	Insoluble.
(i)	Auto ignition temperature:	Not applicable.
9.2	Other information	No other information available.
10. Stability and reactivity		
10.1	Reactivity	No known reactivity hazards associated with this product.
10.2	Chemical stability	Stable at normal ambient temperatures.
10.3	Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.
10.4	Conditions to avoid	Avoid rough handling and store in dry area.
10.5	Incompatible materials	Avoid contact with flammable substances.
10.6	Hazardous decomposition products	No decomposition if stored and used as directed.
11. Toxicological information		
11.1	Information on toxicological effects	
	Inhalation	Dust may irritate the respiratory system
	Skin contact:	May cause irritation
	Eye contact:	May cause irritation
	ACGIH A4:	Not classified as a human carcinogen. Inadequate data with which to classify it in terms of its carcinogenicity in human and / or animals
12. Ecological information		
12.1	Toxicity	Water hazard class 1. Do not allow material to be released to the environment without proper government / local permits.
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No bioaccumulation potential.

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12.4	Mobility in soil	No data available.
12.5	Results of PBT and vPvB assessment	This product is not classified as PBT or vPvB according to current EU criteria.
12.6	Other adverse effects	No data available.
13. Disposal considerations		
13.1	Waste treatment methods	This SDS does not apply to used catalyst as it may have different hazards or properties from the original product. Can be disposed as unregulated / non-hazardous waste.
14. Transport information		
General:		Product is not covered by international regulations on the transport of dangerous goods (IMDG, ICAO, ADR / RID)
14.1	UN Number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Environmentally hazardous: No Marine pollutant: No
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
15. Regulatory information		
15.1	Safety, health and environmental regulations / legislation specific for the substance or mixture	Labelling according to Regulation (EC) No 1272/2008: Not applicable Hazard pictograms: Not applicable Signal word: Not applicable Hazard statements: Not applicable
15.2	Chemical safety assessment	No chemical safety assessment has been carried out for the mixture.
16. Other information		
<u>Legal Disclaimer</u> The information given in this safety data sheet is based on our knowledge of this product at the time of publication and is given in good faith. It is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Don Whitley Scientific Limited provides no warranty with respect to this information and disclaims all liability associated with its use.		
<u>Revision comments</u> This SDS has been revised (additional data provided) to comply with the requirements of Annex II to Regulation (EC) 1907/2006 as amended by Commission Regulation (EU) 2015/830.		