

MATERIAL SAFETY DATA SHEET

Voluntary informative product safety data sheet (SVIP)
according to GHS – GLOBAL HARMONISED SYSTEM, Reg. EC 1907/2006 and to Reg. EU 830/2015

1		CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
1.1	Product name	558505-554052-554053-566940-566950	
1.2	Description and use of the product	Abrasive material for mechanical industry. Industrial and professional use. Do not use for other purposes	
1.3	Company name	Hoffmann Nürnberg GmbH Qualitätswerkzeuge	
1.4	Address	Franz-Hoffmann-Str. 3 DE-90431 Nürnberg Germany	
1.5	Telephone number	+49(0) 911 6581-0	
1.6	Fax number	+49(0) 911 6581-317	
1.7	E-mail address of the competent person responsible for Safety Data Sheet	dangerousgoods@hoffmann-group.com	
1.8	Emergency phone number	Poison control centers in Italy <ul style="list-style-type: none"> • ROMA CAVp "Osp. Pediatrico Bambino Gesù". Tel: 0039 06 68593726 • FOGGIA Az. Osp. Univ. Foggia. Tel: 0039 0881 732326 • MILANO Ospedale Niguarda Ca' Granda. Tel: 0039 02 66101029 • NAPOLI Ospedale Riuniti Cardarelli. Tel: 0039 081 7472870 • ROMA Policlinico Agostino Gemelli. Tel: 0039 06 3054343 • ROMA Policlinico Umberto I. Tel: 0039 06 490663 • PAVIA CAV Centro Naz. di Informazione Tossicologica. Tel: 0039 0382 24444 • BERGAMO Azienda Ospedaliera Papa Giovanni XXII. Tel.: 0039 800 883300 • FIRENZE Az. Osp. "Careggi" U.O. Tossicologia Medica. Tel.: 0039 055 7947819 	
2		HAZARDS IDENTIFICATION	
GHS Symbols and hazard labelling according to Reg. 1272/2008/EC			
2.1	DEFINITION: MATERIAL OF THIS ABRASIVE ARTICLE IS A MIXTURE. HAZARD CLASSIFICATION AND LABELLING ACCORDING TO REG. EC 1272/2008 IS NOT APPLICABLE.		
NOT HAZARDOUS			
NO GHS PICTOGRAM			
Hazard statements			
2.2	No hazard statements		
Precautionary statements			
2.3	P 260	Do not breathe dust	
	P 280	Wear protective gloves/eye/face protection	
Other hazards			
2.4	The mixture meets criteria for PBT according to Reg. (EC) 1907/2006, all. XIII		Not applicable
	The mixture meets the criteria for vPvB according to Reg.(EC) 1907/2006, all. XIII		Not applicable
	Other hazards		Risks about its use should be assessed by the safety management system of any downstream user
Label elements			
2.5	NOT HAZARDOUS, NO GHS PICTOGRAM		
	Substances to be indicated on the label		Not applicable

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3	COMPOSITION / INFORMATION ON INGREDIENTS
3.1	Substances: not applicable
3.2	Mixtures: applicable on the material of the abrasive

Product / article based on abrasive powders supported on an inert matrix made up of a plastic fabric and on cotton or polyester fabric with inert polymerized resin

Abrasive material supported and binded

Matrix	Substance	Hazard pictogram	Hazard classification	CAS N.	EC N.
		Reg. EC 1272/2008	Reg. EC 1272/2008		
Abrasive powders	Aluminium oxide Al ₂ O ₃ Reach reg. N.: 01-2119529248-35-xxxx	---	---	1344-28-1	215-691-6
		TSCA 8(b) inventory	Listed		
		RTECS	BD1200000		
	Silicon carbide (SiC), (not fibrous) Reach reg. N.: 01-2119402892-42-xxxx	---	---	409-21-2	206-991-8
		TSCA 8(b) inventory	Listed		
		RTECS	VW0450000		

*: The word Corundum is defined as a natural form of alumina containing small amounts of iron, magnesium and silica impurities

** : Differences in the % composition of the abrasive powdery mixture do not involve any modifications to the classification of material hazards according to the current Regulations (see also § 8)

Structural support

Matrix	Structural component	Hazard pictogram	Hazard classification
Support	Polyester / cotton tissue	No GHS pictogram	Not hazardous
Binder	Inert polymeric film	No GHS pictogram	Not hazardous

No additional ingredients, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, meet the PBT or vPvB criteria or are considered to be of equivalent concern substances or substances which it has been assigned a workplace exposure limit and hence require reporting in this section.

The upper limits of the ranges of concentration are excluded

Occupational exposure limits, if available, are listed in Section 8

4 FIRST AID MEASURES

Premise

The following recommendations are basic rules when using the abrasives applied and must be supplemented by information on the safety data sheets of the working material and any refrigerant used

Description of first aid measures, in the case of dust projections		
4.1	Eye contact	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
	Skin contact	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
	Swallowing	Drink water and seek immediate medical advice, showing this MSDS
	Inhalation	Supply fresh air; consult doctor in case of complaints
	Other informations	Immediately remove contaminated clothing

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Most important symptoms and effects, acute and delayed		
4.2	Potential acute health effects	No health-related episodes attributable to the product are known Eye contact: possible moderate and reversible irritation Inhalation: possible generalized malaise Skin contact: moderate and reversible irritation possible Ingestion: No known significant effects or critical hazards
	Medical attention and special treatment	Threat symptomatically. If ingested or inhaled (large amounts), immediately contact a poison control center. No specific treatments are known
5 FIRE FIGHTING MEASURES		
5.1	Suitable extinguishing agents	This abrasive material is not flammable. Abrasives substances are not combustible. Substances of the support material contain solid fuels (type A fireworks). In the event of a fire, the following extinguishing media may be used: carbon dioxide (CO ₂ , foam, chemical powders, in the case of very large fire extinguishing even spray water spray
5.2	Unsuitable extinguishing agents for safety reasons	None of the abrasive material, to be evaluated also in the context of the general context of use, of the materials subject to abrasion processes and resulting powders
5.3	Special hazards caused by the substance and its combustion products or resulting gases	In case of fire exposed at high temperatures the present organic substances may partially decompose and burn by releasing carbon oxides and other oxidized organic compounds
5.4	Protective equipment	Use protection for the respiratory tract. Cool fire exposed containers with water
5.5	Recommendations for Fire Extinguishers	Cool with water jets containers to avoid product decomposition and the development of substances potentially hazardous to health. Always wear complete fire protection equipment. Collect extinguishing water that should not be discharged into drains. Dispose of contaminated water used for fire extinguishing and residues according to applicable regulations. Use normal fire fighting clothing such as an open-air compressor (EN 137), full flame retardant (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30)
6 ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective equipment and procedures in case of emergency		
6.1	Person-related safety precautions	Not applicable for this abrasive product as such
	Measures for environmental protection	
	Additional informations	
Methods and materials for containment and cleaning		
6.2	Measures for cleaning/collecting (small spill)	Not applicable for this abrasive product as such
	Measures for cleaning/collecting (large spill)	
Reference to other sections		
6.3	Emergency telephone numbers	See section 1
	Protection devices individual.	See section 8
	Waste treatment	See section 13

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7 HANDLING AND STORAGE	
7.1	<p>Handling</p> <p>Wash hands thoroughly after handling the product, especially before drinking and / or eating. Avoid contact with eyes, do not breathe dust and aerosols, do not ingest.</p> <p>The product, used under the normal conditions of use recommended in the specific technical instructions, does not contain volatile compounds and does not require specific vapor capture systems, but precautions must be taken to produce dust during the abrasion process.</p> <p>Do not smoke, drink or eat during use. Provide near waterpoints.</p> 
7.2	<p>Storage</p> <p>Store in original packaging, closed and away from sources of heat. Use appropriate storage areas.</p>
7.3	<p>Specific end use(s)</p> <p>Abrasive material for mechanical industry. Industrial and professional use. Do not use for other purposes</p>

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters																									
8.1	<p>Hygiene and personal protective measures</p> <p>For the handling and storage of abrasive material as such, no specific precautionary technical measures are required.</p> <p>During operation, refer to the operating instructions of the operating machines and the National Regulations and carefully observe the maximum operating speeds indicated. When using in mechanical machining, use a localized suction system according to the material being machined; It is preferable to have availability near an eye fountain.</p> 																								
	<table border="1"> <thead> <tr> <th rowspan="2">Component</th> <th colspan="2">USA OSHA 2017 TWA [mg/m³]</th> <th colspan="2">GERMANY DFG 2017 TWA [mg/m³]</th> </tr> <tr> <th>Inhalable fraction</th> <th>Respirable fraction</th> <th>Inhalable fraction</th> <th>Respirable fraction</th> </tr> </thead> <tbody> <tr> <td>Silicon carbide</td> <td>15</td> <td>5</td> <td>---</td> <td>---</td> </tr> <tr> <td>Corindon [Al₂O₃]</td> <td>15</td> <td>5</td> <td>4</td> <td>1,5</td> </tr> <tr> <td>Not classified dust</td> <td colspan="4">10 mg/m³ inhalable fraction (TWA 8 hours, ACGIH 2017) 3 mg/m³ respirable fraction (TWA 8 hours, ACGIH 2017)</td> </tr> </tbody> </table>	Component	USA OSHA 2017 TWA [mg/m ³]		GERMANY DFG 2017 TWA [mg/m ³]		Inhalable fraction	Respirable fraction	Inhalable fraction	Respirable fraction	Silicon carbide	15	5	---	---	Corindon [Al ₂ O ₃]	15	5	4	1,5	Not classified dust	10 mg/m ³ inhalable fraction (TWA 8 hours, ACGIH 2017) 3 mg/m ³ respirable fraction (TWA 8 hours, ACGIH 2017)			
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8.2	<p>Respiratory protection</p> <p>During use, as a result of the formation of dusts and aerosols, protect the respiratory tract by means of collective suction systems or individual devices (A-type filter mask whose class (1, 2 or 3) should be selected in relation to the limit concentration Use respirators and components tested and approved by the relevant standardization bodies, such as NIOSH (USA), CEN (US), EN 14387. If the respirator is the only means of protection, use a fully flush ventilated system. (UE)</p>																								

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Eyes protection	During use, as a result of dust and aerosol formation, protect eyes with tested and approved devices according to the requirements of appropriate technical standards such as NIOSH (USA) or EN 166 (EU)	
Hands protection	Leather or PVC working gloves (EN 374)	
Skin protection	The use of protective clothing for the skin and body is not strictly necessary for normal use, but it is advisable to wear ordinary work clothing for general skin protection in relation to the use and associated risks assessed	
Other informations	Keep away from foodstuffs. Wash hands thoroughly after handling the product. Keep working clothes separately. Immediately remove contaminated clothing. Follow the local Safety Management standards and instructions.	

9	PHYSICAL AND CHEMICAL PROPERTIES	
	Information on basic physical and chemical properties	
	Appearance	Solid abrasive material (different colours)
	PH	Not applicable
	Odour	Odourless
	Odour threshold	Not applicable
	Density at 20 °C	No available data for the abrasive product
	Relative vapour density (dry air = 1)	No available data for the abrasive product
	Flash point	Not applicable for the abrasive product
	Melting temperature	Not applicable for the abrasive product
9.1	Boiling temperature	Not applicable for the abrasive product
	Self-ignition temperature	The abrasive material is not combustible. The support material has a self-ignition temperature > 300 °C
	Decomposition temperature	> 250 °C, with reference to the components of the support material
	Explosive range	No available and applicable data for the components of § 3
	Comburent properties	Not applicable
	Vapour pressure at 20 °C	Not significant for the abrasive product
	Water solubility	Insoluble
	Solvent solubility	Insoluble
	Partition coefficient n-octanol/water (log Pow)	No available and applicable data for the components of § 3
	Other informations	
9.2	VOC (Directive 2010/75/EC)	< 0,1%
	VOC (volatile carbon)	< 0,1%

10	STABILITY AND REACTIVITY
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10.1	Chemical stability	The abrasive product is stable under recommended conditions of use and storage.
10.2	Possibility of dangerous reactions	In contact with strong acids, strong alkaline agents, and strong oxidants may give rise to reactions
10.3	Conditions to avoid	Avoid strong and prolonged overheating, in uncontrolled conditions and with triggers
10.4	Incompatible materials	Strong acids, strong bases, and concentrated oxidants or concentrate reducing agents, which may alter product characteristics, particularly adhesive, and create safety hazards when mills are used on machines
10.5	Hazardous decomposition products	Dangerous vapors / gases such as carbon monoxide, carbon dioxide and nitrogen oxides can be produced for overheating and decomposition at temperatures above 250 °C

11	TOXICOLOGICAL INFORMATIONS					
11.1	Toxicological effects, general informations, CMR properties	<ul style="list-style-type: none"> • Sensitisation: classification criteria are not met • Cencrogenicity: classification criteria are not met • Germ cell mutagenicity: classification criteria are not met • Reproductive toxicity: classification criteria are not met • specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met • specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met • aspiration hazard: based on available data, the classification criteria are not met 				
11.2	Acute toxicity	<p>For this abrasive product (estimated data based on component weight calculation). LD50 (oral) > 10000 mg / Kg</p> <table border="1"> <tr> <td>Al₂O₃ (Corindon)</td> <td>> 5000 mg/Kg - DL50, oral rat (IUCLID Data Sheet, European Chemical Bureau)</td> </tr> <tr> <td>Silicon carbide</td> <td>No available data</td> </tr> </table>	Al ₂ O ₃ (Corindon)	> 5000 mg/Kg - DL50, oral rat (IUCLID Data Sheet, European Chemical Bureau)	Silicon carbide	No available data
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Silicon carbide	No available data					
11.3	Immediate, delayed and chronic effects arising from short and long term exposures	No other information available				
11.4	Other adverse effects	Health hazards may depend on exposure to abrasive materials				

12	ECOLOGICAL INFORMATIONS							
12.1	Elimination information (persistence and degradability)	No information is available for this product. The abrasive components present are inorganic and are not biodegradable in water and soil						
12.2	Ecotoxicity	<p>Acute and chronic toxicity: Based on available data, classification criteria are not met. Product components are not classified as environmentally hazardous.</p> <table border="1"> <tr> <td>Al₂O₃ (Corindon)</td> <td>> 100 mg/l – 96 h, salmo trutta</td> </tr> <tr> <td></td> <td>> 100 mg/l – 48 h, daphnia magna</td> </tr> <tr> <td>Silicon carbide</td> <td>No available data</td> </tr> </table>	Al ₂ O ₃ (Corindon)	> 100 mg/l – 96 h, salmo trutta		> 100 mg/l – 48 h, daphnia magna	Silicon carbide	No available data
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Silicon carbide	No available data							
12.3	Potential of bioaccumulation	Product is not classified PVB or vPvB. None of the substances present in this product is subject to the criteria for PVB or vPvB substances (All Version VIII of REACH Regulation)						
12.4	Mobility in soil	No information is available for the product. The substances present in the product, mentioned in § 3, do not present significant mobility in the soil.						
12.5	Further informations	No other adverse effects are known						

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13 DISPOSAL CONSIDERATIONS		
The information in this section contains instructions and general notes. The list of identified uses in section 1 for specific information available		
13.1	Waste treatment methods	<p>Product The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the law on environmental protection and waste disposal legislation and the requirements of any relevant local authorities. Dispose of surplus and non-recyclable products via a licensed waste disposal. The untreated waste should not be disposed of in the sewer system unless they are not fully compliant with the requirements of each institution and legislation. Hazardous waste: YES</p>
		<p>Packaging The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Dispose of this material and its container must be with proper precautions. Empty containers or liners may retain some product residues. Prevent drift and runoff of spilled material and contact with soil, waterways, drains and sewers</p>
13.2	European waste catalogue (EWC)	For disposal within the EU is roughly from the code used by the sudden refusal to register the European Waste Catalogue (EWC)
14 TRANSPORT INFORMATION		
14.1	Land transport ADR – RID (road and rail)	Not regulated
14.2	Transport by sea IMDG	Not regulated
14.3	Air transport IATA	Not regulated
14.4	Special precautions for users	Transport within user's premises: always transport in closed containers that are upright and secure means of transport. Ensure that persons involved in the service to take effective action in case of accident and / or spillage.
14.5	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information applicable or available

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15 REGULATORY INFORMATION		
15.1	Reg. 1272/2008/EC	The product does not contain substances which can be classified as carcinogenic cat. 1 or 2 under Reg. 1272/2008 / EC and later updates.
15.2	Reg. 1907/2006/EC (REACH)	The product conforms to the requirements provided for in Title II of Reg. 1907/2006 / EC (registration of substances) The product does not contain SVHC substances included in the candidate list of ECHA on the date of issue of this sheet. Annex XVII to Regulation 1907/2006 / EC: none
15.3	Chemical safety assessment	For this product / article, consisting of mixtures classified as non-hazardous, chemical safety assessment has not been performed and is not applicable. All components present are used in accordance with the identified uses and the relevant and applicable scenarios (see also section 8.2)
16 OTHER INFORMATIONS		
16.1	Full text of H statements, sections 2 and 3 (Reg. 1272/2008/EC)	---
16.2	Bibliographic references	ECDIN - Environmental Chemical Data and Information Network
		IUCLID - International Uniform Chemical Information Data Base
		ECHA C&L inventory
		NIOSH - Registry of Toxic Effects of Chemical Substances
		IFA_GESTIS - http://limitvalue.ifa.dguv.de/
16.2	Changes to previous version	TOXNET - https://toxnet.nlm.nih.gov/ All sections were updated according to applicable European legislation
16.3	Further informations	The information herein is correct at the Reg 1272/2008/EC and following amendments. Product conforms to the requirements provided in Title II of Regulation 1907/2006/EC (the registration of substances). None of the substances in this product is subject to authorization (annex 14) or is included in the candidate list of SVHCs under the REACH Regulation, the issuance of this sheet
16.4	Disclaimer	This MSDS complies with the requirements of Reg 830/2015/EU. It does not excuse in any way the user from knowing and applying all texts governing his activity. The user will take under its responsibility the precautions related to the use of the product. The set of regulations mentioned is intended simply to help the recipient to fulfill her obligations. This list should not be considered as a technical note details The information is based on our knowledge of the product, the date indicated. They are given in good faith. The attention of the user is directed to possible risks incurred when a product is used for other purposes than for which it was conceived. The recipient must ensure that no other obligations to compete on the basis of texts in addition to those mentioned