

S A F E T Y   D A T A   S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : BUEHLER SILICON CARBIDE POWDER  
 IDENTIFICATION NUMBER: 40-6400-120-016/080, 40-6405-240-016/080,  
 40-6407-320-016/080, 40-6410-400-016/080,  
 40-6415-600-016/080, 40-6418-000-016/080  
 PRODUCT USE/CLASS : Polishing compound

SUPPLIER:

Buehler UK, Ltd.	Buehler GmbH
Saturn Building	In der Steele 2, 40599 Düsseldorf
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PREPARER: Technical Department, PHONE: +18472955600, PREPARE DATE: 05/07/01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Christobalite Classification: No information; N.E.	14464-46-1	0.1-1.0
02	QUARTZ (hazardous when respirable) Classification: HARMFUL-Carc. cat. 3-(rd), Xn; R40/20	14808-60-7	0.1-1.0

EXPOSURE LIMITS

ITEM	U/K		GERMANY		OTHER	
	8-HR REL	15-MIN STEL	8-HR MAK	15-MIN MAK	8-HR TWA	SKIN
01	0.05 mg/m3	N.E.	0.05 mg/m3	N/E	N.E.	NO
02	0.1 mg/m3	N.E.	0.1 mg/m3	N/E	0.1 mg/m3	NO

(See Section 16 for abbreviation legend)

SECTION 3 - IDENTIFICATION OF HAZARDS

EMERGENCY OVERVIEW: (R40/20) Harmful: possible risk of irreversible effects if inhaled.

PRIMARY ROUTE(S) OF ENTRY: INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Treat symptomatically.

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SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: N.A.

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: Does not burn.

SPECIAL FIREFIGHTING PROCEDURES: Does not burn.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim clean material. Wash spill area with soap and water.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Minimize dust generation and accumulation. Follow good general industrial safety practices during use and handling.

STORAGE: No special requirements.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation normally required.

RESPIRATORY PROTECTION: None normally required under good general industrial ventilation.

SKIN PROTECTION: Cloth or synthetic gloves. None normally required.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: None required.

HYGIENIC PRACTICES: No special requirements.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: N.A.	VAPOR DENSITY	: Is heavier than air
ODOR	: None	ODOR THRESHOLD	: N/A
APPEARANCE	: Grey to black	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Insoluble		
FREEZE POINT	: N/A	SPECIFIC GRAVITY:	3.1689
VAPOR PRESSURE	: N/a	pH @ 0.0 %	: N/A
PHYSICAL STATE	: Solid powder	VISCOSITY	: N/A

COEFFICIENT OF WATER/OIL DISTRIBUTION: N/A

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

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SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

ACUTE EFFECTS - EYE CONTACT: Not expected to present a hazard in normal industrial use. Non-irritating to the eyes.

ACUTE EFFECTS - SKIN CONTACT: Non-irritating to the skin.

ACUTE EFFECTS - INHALATION: Not expected to present hazard in normal industrial use.

ACUTE EFFECTS - INGESTION: Not expected to present a hazard in normal industrial use.

CHRONIC OVEREXPOSURE EFFECTS: \*This product contains silicon dioxide (quartz, silica) and christabolite. Free respirable silica and christabolite have been listed as a confirmed human carcinogen by IARC. Inhalation of free respirable silica may cause silicosis or other serious delayed lung injury. Recent studies have also suggested that individuals with silicosis are at increased risk of developing tuberculosis, scleroderma, and/or increased incidence of kidney lesions.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material as sold may be disposed of in landfill. If material becomes contaminated, follow disposal instructions for contaminant.

SECTION 14 - TRANSPORTATION INFORMATION

INTERNATIONAL SHIPPING NAME: Not regulated for transport

INTERNATIONAL ID NUMBER: N/A

IMDG CLASS (1ø,2ø): N/A

PACKING GROUP: N/A

IMDG EMS: N/A

IATA CLASS (1ø,2ø): N/A

SECTION 15 - REGULATORY INFORMATION

CHiP SUPPLY LABEL RISK PHRASES: (R40/20) Harmful: possible risk of irreversible effects if inhaled.

CHiP SUPPLY LABEL SAFETY PHRASES: (S51) Use with adequate ventilation.

CHiP SUPPLY LABEL SYMBOLS: Harmful, Xn

VOLATILE ORGANIC COMPOUNDS (VOCS): 0 grams/ltr

SECTION 16 - OTHER INFORMATION

PREVIOUS MSDS REVISION DATE: 05/07/01

REASON FOR REVISION: new format

ADMINISTRATIVE REVISION DATE:

REASON FOR ADMINISTRATIVE REVISION:

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SECTION 16 - OTHER INFORMATION  
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LEGEND: N.A. - No information, N.E. - Not Established,  
N.D. - Not Determined

ABBREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists; UK = United Kingdom; REL = Recommended Exposure Limit; MAK = Maximale Arbetisplatzkonzentration (Maximum Concentration in the Workplace); TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hours); STEL = Short-Term Exposure Limit (15 minutes); C = Ceiling Value; PEL = Permissible Exposure Limit

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