

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 METADI AEROSOL
 IDENTIFICATION NUMBER: 40-6260 through 40-6288
 PRODUCT USE/CLASS : Polish

SUPPLIER:

Buehler UK, Ltd. Saturn Building 101, Lockhurst Lane Coventry CV6 5SF ENGLAND	Buehler GmbH In der Steele 2, 40599 Düsseldorf Postfach 16 03 55, 40599 Düsseldorf
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PREPARER: Technical Department, PHONE: +18472955600, PREPARE DATE: 18/07/01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Isopropanol Classification: F, Xi; R11-36-37	67-63-0	30.0-60.0
02	Polyalkylene glycol Classification: No information.	Unknown	10.0-30.0
03	1,1,1,2-tetrafluoroethane Classification: No information.	811-97-2	30.0-60.0

EXPOSURE LIMITS

ITEM	U/K		GERMANY		OTHER	SKIN
	8-HR REL	15-MIN STEL	8-HR MAK	15-MIN MAK	8-HR TWA	
01	400 ppm	500 ppm	400 ppm	N/E	400 ppm	NO
02	N.E.	N.E.	N.E.	N.E.	N.E.	NO
03	N.E.	N.E.	1000 ppm	N.E.	1000 ppm	NO

(See Section 16 for abbreviation legend)

SECTION 3 - IDENTIFICATION OF HAZARDS

EMERGENCY OVERVIEW: (R67) Vapours may cause drowsiness and dizziness.
 (R36/37) Irritating to eyes and respiratory system.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, EYE CONTACT, SKIN CONTACT,

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

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

INHALATION: If symptoms occur, remove to fresh air. Medical personnel may administer oxygen if breathing is difficult. Seek medical attention if symptoms persist.

INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

NOTES TO PHYSICIAN: Treat symptomatically. *In case of poisoning, do not give epinephrine. Treat ventricular arrhythmias with beta-blocking agents. Keep patient calm and quiet.

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SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: does not flash LOWER EXPLOSIVE LIMIT: N/A %
(SETAFLASH CLOSED CUP) UPPER EXPLOSIVE LIMIT: N/A %
AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: WATER FOG, CO2, DRY CHEMICAL, FOAM, ALCOHOL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Containers exposed to direct heat or fire may explode.

SPECIAL FIREFIGHTING PROCEDURES: Treat as chemical fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove sources of ignition. Wash spill area with soap and water.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid contact with skin and eyes. Follow good general industrial safety practices during use and handling. FOR INDUSTRIAL USE ONLY.

STORAGE: Store full and empty containers away from heat, sparks, and flame. Do not store in direct sunlight. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation usually adequate. Supplemental ventilation equipment should be approved for use with flammable vapours.

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

SKIN PROTECTION: Clean clothing to cover skin. Rubber or synthetic gloves. Neoprene gloves. None normally required.

EYE PROTECTION: No information.

OTHER PROTECTIVE EQUIPMENT: No information.

HYGIENIC PRACTICES: DO NOT smoke or eat during use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 82 - 82 C	VAPOR DENSITY	: Is heavier than air
ODOR	: Solvent/ether	ODOR THRESHOLD	: No data
APPEARANCE	: Clear	EVAPORATION RATE:	Is faster than Butyl Acetate
SOLUBILITY IN H2O	: Moderate	SPECIFIC GRAVITY:	0.9780
FREEZE POINT	: No data	pH @ 0.0 %	: N/A
VAPOR PRESSURE	: No data - high	VISCOSITY	: N/A
PHYSICAL STATE	: Aerosol		
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data			
(See Section 16 for abbreviation legend)			

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SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Prolonged exposure to heat.

INCOMPATIBILITY: Strong Lewis or mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
Isopropanol	Oral rat 5045mg/kg	No information
Polyalkylene glycol	Oral-rat=>2g/kg	No information
1,1,1,2-tetrafluoroethane	No information	Inh-rat=1500g/m3/4

Toxicological Test Data: No information.

ACUTE EFFECTS - EYE CONTACT: Severely irritating to the eyes.

ACUTE EFFECTS - SKIN CONTACT: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

ACUTE EFFECTS - INHALATION: Can cause severe central nervous system depression, including unconsciousness. Causes respiratory tract irritation. *Extreme overexposure to 1,1,1,2-tetrafluoroethane may cause cardiac arrhythmia. Effects are worsened by activity following overexposure.

ACUTE EFFECTS - INGESTION: May cause nausea and vomiting. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

CHRONIC OVEREXPOSURE EFFECTS: No information.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: This product and its container should be disposed of as hazardous waste in accordance with local and national regulations.

SECTION 14 - TRANSPORTATION INFORMATION

INTERNATIONAL SHIPPING NAME: Aerosols

INTERNATIONAL ID NUMBER: UN1950

IMDG CLASS (1ø,2ø): 2.2, none

PACKING GROUP: n/a

IMDG EMS: 213

IATA CLASS (1ø,2ø): 2.2, none

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SECTION 15 - REGULATORY INFORMATION

CHiP SUPPLY LABEL RISK PHRASES: (R36/37) Irritating to eyes and respiratory system. (R67) Vapours may cause drowsiness and dizziness.

CHiP SUPPLY LABEL SAFETY PHRASES: (S15) Keep away from heat. (S24/25) Avoid contact with skin and eyes. (S26) In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (S35) This material and its container must be disposed of in a safe way. (S51) Use only in well-ventilated areas. For industrial and professional use only.

CHiP SUPPLY LABEL SYMBOLS: Irritant, Xi

VOLATILE ORGANIC COMPOUNDS (VOCS): 101 grams/ltr (calculated)

SECTION 16 - OTHER INFORMATION

PREVIOUS MSDS REVISION DATE: 18/07/01
REASON FOR REVISION: new format

ADMINISTRATIVE REVISION DATE:
REASON FOR ADMINISTRATIVE REVISION:

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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