

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 REPLICATING TAPE
 IDENTIFICATION NUMBER: 57-5000, 57-5002
 PRODUCT USE/CLASS : Film

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: 11/08/01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Dibutyl Phthalate Classification: No information; N.E.	84-74-2	10.0-30.0
02	Dimethyl phthalate Classification: No information; N.E.	131-11-3	10.0-30.0
03	Dichloromethane Classification: Harmful Xn; Carc. Cat. 3; R40	75-09-2	1.0-5.0
04	Methanol Classification: FLAMMABLE F; TOXIC T; R11-23/24/25-39/23/24/25	67-56-1	1.0-5.0

EXPOSURE LIMITS

ITEM	U/K		GERMANY		OTHER	SKIN
	8-HR REL	15-MIN STEL	8-HR MAK	15-MIN MAK	8-HR TWA	
01	5mg/m3	N.E.	5mg/m3	N/E	N.E.	NO
02	5mg/m	N.E.	5mg/m3	N/E	N.E.	NO
03	100 ppm	N.E.	500 ppm	200 ppm	100 ppm	NO
04	200 ppm	250 ppm	200 ppm	N/E	200 ppm	NO

(See Section 16 for abbreviation legend)

SECTION 3 - IDENTIFICATION OF HAZARDS

EMERGENCY OVERVIEW: Not considered a dangerous good for supply.

PRIMARY ROUTE(S) OF ENTRY: N/A

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: No information.

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:ALCOHOL FOAM,CO2,DRY CHEMICAL,FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Wear appropriate approved protective equipment. For large fires, avoid aiming water stream directly into flame; it may cause frothing with subsequent spread of flame.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak in water and allow to harden.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Follow good general industrial safety practices during use and handling. FOR INDUSTRIAL USE ONLY.

STORAGE: Store in a cool dry place.

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: Rubber or synthetic gloves.

EYE PROTECTION: Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: No information.

HYGIENIC PRACTICES: No information.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 39 - 335 C VAPOR DENSITY : Is heavier than air
ODOR : Slight solvent ODOR THRESHOLD : NO DATA
APPEARANCE : Clear film EVAPORATION RATE: Is faster than Butyl
SOLUBILITY IN H2O : Insoluble Acetate
FREEZE POINT : N/A SPECIFIC GRAVITY: 1.5796
VAPOR PRESSURE : NO DATA pH @ 0.0 % : N/A
PHYSICAL STATE : Solid film VISCOSITY : N/A
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data
(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Exposure to moisture.

INCOMPATIBILITY: No information.

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SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Toxic monomers. Aromatic and aliphatic hydrocarbons. Phosgene. Combustion under oxygen-starved conditions may produce numerous toxic products including nitriles, cyanic acid, isocyanates, amides, cyanogens, amides, carbamates.

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
Dibutyl Phthalate	oral(rat)8g/kg	7.9mg/m3
Dimethyl phthalate	oral(rat)6800mg/kg	No information
Dichloromethane	Oral/rat-1600mg/kg	rat-30m 88000mg/m3
Methanol	Oral-rat 5628mg/kg	64000 ppm/4H rat

Toxicological Test Data: No information.

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

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

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

ACUTE EFFECTS - INGESTION: Solid article. Not an expected route of exposure.

CHRONIC OVEREXPOSURE EFFECTS: *Component(s) in this material are considered to have caused cancer in laboratory animal studies.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Product may be placed in industrial or municipal landfill if local regulations permit.

SECTION 14 - TRANSPORTATION INFORMATION

INTERNATIONAL SHIPPING NAME: Not regulated for transport

INTERNATIONAL ID NUMBER: N/A

IMDG CLASS (10,20): N/A

PACKING GROUP: N/A

IMDG EMS: N/A

IATA CLASS (10,20): N/A

SECTION 15 - REGULATORY INFORMATION

CHiP SUPPLY LABEL RISK PHRASES: None required/Not regulated.

CHiP SUPPLY LABEL SAFETY PHRASES: None required.

CHiP SUPPLY LABEL SYMBOLS: NONE REQUIRED.

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SECTION 16 - OTHER INFORMATION

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PREVIOUS MSDS REVISION DATE: none
 REASON FOR REVISION: new format

ADMINISTRATIVE REVISION DATE:
 REASON FOR ADMINISTRATIVE REVISION:

VOLATILE ORGANIC COMPOUNDS (VOCS): 28 grams/ltr

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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