

M A T E R I A L 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 RELEASE AGENT
 IDENTIFICATION NUMBER: 20-8185
 PRODUCT USE/CLASS : Release agent

SUPPLIER:

Buehler UK, Ltd. Saturn Building 101, Lockhurst Lane Coventry CV6 5SF ENGLAND TEL: (+44) (0) 24 7658 2158 FAX: (+44) (0) 24 7658 2159	Buehler GmbH In der Steele 2, 40599 Düsseldorf Postfach 16 03 55, 40599 Düsseldorf Telefon: (+49) 0211-974100 Telefax: (+49) 0211-9741079
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PREPARER: Technical Department, PHONE: +18472955600,
 PREPARE DATE: 20/05/03; 20 MAY 2003

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Trimethylated Silica Classification: No information; N.E.	68988-56-7	1.0-5.0
02	Petroleum distillate Classification: Xn, F; R11-65	64741-66-8	60.0-100.0

EXPOSURE LIMITS

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

(See Section 16 for abbreviation legend)

SECTION 3 - IDENTIFICATION OF HAZARDS

EMERGENCY OVERVIEW: (R11) Highly Flammable. (R65) Harmful: may cause lung damage if swallowed.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, INHALATION, EYE 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: 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: < 0 deg C

LOWER EXPLOSIVE LIMIT: 1.5 %

UPPER EXPLOSIVE LIMIT: 11.6 %

AUTOIGNITION TEMPERATURE: No data

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours are heavier than air, and may travel along the ground to be reignited at locations distant from the source; flashback of flame may occur. Store full and empty containers away from heat, sparks, flame and other sources of ignition.

SPECIAL FIREFIGHTING PROCEDURES: Treat as petroleum fire. Wear appropriate approved protective equipment. Avoid directing 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: Reclaim clean material. Remove sources of ignition. Wipe up with absorbent cloth or pad. Place used absorbent or rags in appropriate container for flammable waste. Wash spill area with mild detergent solution.

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. 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. Keep container closed when not in use. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust as needed to control vapour or dust levels to below lowest component recommended safe exposure limit. Supplemental ventilation equipment should be approved for use with flammable vapours.

RESPIRATORY PROTECTION: If exposure levels are unknown, if levels exceed recommended safe exposure limit, or if effects occur, use approved organic vapour cartridge respirator in accordance with regulations and manufacturer's recommendations.

SKIN PROTECTION: Clean clothing to cover skin. Rubber or synthetic gloves.

EYE PROTECTION: Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT: Eye wash.

HYGIENIC PRACTICES: DO NOT smoke or eat during use. DO NOT reuse empty containers.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 96 - 124 C VAPOR DENSITY : Is heavier than air
ODOR : Mild solvent ODOR THRESHOLD : No data
APPEARANCE : Opaque EVAPORATION RATE: Is slower than Butyl
SOLUBILITY IN H2O : Negligible Acetate
FREEZE POINT : No data SPECIFIC GRAVITY: 0.7205
VAPOR PRESSURE : No data pH @ 0.0 % : N/A
PHYSICAL STATE : Liquid VISCOSITY : Low
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data
(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: No information.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Aromatic and aliphatic hydrocarbons. Oxides of silicon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

Toxicological Test Data: Not Applicable.

ACUTE EFFECTS - EYE CONTACT: Contact may cause eye irritation. Slightly irritating but does not injure eye tissue.

ACUTE EFFECTS - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated skin contact may cause irritation.

ACUTE EFFECTS - INHALATION: Liquid aspirated into lungs may cause chemical pneumonitis. High concentrations in immediate area can displace oxygen and can cause dizziness and unconsciousness with longer exposure. Causes respiratory tract irritation.

ACUTE EFFECTS - INGESTION: This material may be harmful or fatal if swallowed. May cause nausea and vomiting.

CHRONIC OVEREXPOSURE EFFECTS: *Studies suggest that chronic overexposure and/or systemic toxicity effects are targeted at the liver and kidneys.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Incineration or fuels blending recommended if regulations permit. This material and/or its container must be disposed of as hazardous waste.

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SECTION 14 - TRANSPORTATION INFORMATION

INTERNATIONAL SHIPPING NAME: Petroleum distillate solution, nos
INTERNATIONAL ID NUMBER: UN1268
IMDG CLASS (10,20): 3, none IMDG PAGE NUMBER: II
IMDG EMS: N/D IATA CLASS (10,20): 3, none

SECTION 15 - REGULATORY INFORMATION

CHiP SUPPLY LABEL RISK PHRASES: (R11) Highly Flammable. (R65) Harmful:
may cause lung damage if swallowed.

CHiP SUPPLY LABEL SAFETY PHRASES: (S23) Do not breathe vapor or fumes.
(S24) Avoid contact with skin. (S62) If swallowed, do not induce vomiting;
seek medical advice immediately and show this container or label. For
professional use only.

CHiP SUPPLY LABEL SYMBOLS: Harmful, Xn; Highly Flammable, F

SECTION 16 - OTHER INFORMATION

PREVIOUS MSDS REVISION DATE: 28/06/02
REASON FOR REVISION: revised Section(s): 2,3,15

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

ABBREVIATIONS: Administrative Revision Date: Reason for administrative
revision: 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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