

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 BALSAM, NEUTRAL
 IDENTIFICATION NUMBER: 40-8110-004, 40-8110-016
 PRODUCT USE/CLASS : Solvent

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
TEL: (+44) (0) 24 7658 2158	Telefon: (+49) 0211-974100
FAX: (+44) (0) 24 7658 2159	Telefax: (+49) 0211-9741079

PREPARER: Technical Department, PHONE: +18472955600, PREPARE DATE: 09/08/01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Turpentine Classification: Xn, N; R10-20/21/22-36/38-43-51/53-65	8006-64-2	10.0-30.0

EXPOSURE LIMITS

ITEM	U/K		GERMANY		OTHER	SKIN
	8-HR REL	15-MIN STEL	8-HR MAK	15-MIN MAK	8-HR TWA	
01	100 ppm	N.E.	100 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3 - IDENTIFICATION OF HAZARDS

EMERGENCY OVERVIEW: (R10) Flammable. (R20) Harmful by inhalation. (R43) May cause sensitisation by skin contact. (R65) Harmful: may cause lung damage if swallowed. (R36/38) Irritating to eyes and skin. (R51/52) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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.

Continued on Page 2)

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 43 C LOWER EXPLOSIVE LIMIT: N.A.
(SETAFLASH C.C.) UPPER EXPLOSIVE LIMIT: N.A.
AUTOIGNITION TEMPERATURE: No data

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

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. Containers exposed to fire may explode.

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. Place contaminated material in covered waste container and dispose of in accordance with local and national regulations.

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 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.

Continued on Page 3)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 154 - 170 C VAPOR DENSITY : Is heavier than air
ODOR : Moderate pleasant ODOR THRESHOLD : No data
APPEARANCE : Clear EVAPORATION RATE: Is slower than Butyl
SOLUBILITY IN H2O : Slight Acetate
FREEZE POINT : No data SPECIFIC GRAVITY: 1.0507
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: No information.

INCOMPATIBILITY: Strong Lewis or mineral acids. Hydrogen peroxide.
Perchloric acid, dehydrating agents.

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
Turpentine	Oral-hmn= 500mg/kg	No information

Toxicological Test Data: No information.

ACUTE EFFECTS - EYE CONTACT: Contact may cause injury to eye tissue if not removed promptly.

ACUTE EFFECTS - SKIN CONTACT: Mild irritant. Prolonged contact may cause defatting and redness.

ACUTE EFFECTS - INHALATION: Liquid aspirated into lungs may cause chemical pneumonitis. High vapour concentrations are irritating to the eyes, nose, throat and lungs.

ACUTE EFFECTS - INGESTION: 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: *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.

Continued on Page 4)

SECTION 14 - TRANSPORTATION INFORMATION

INTERNATIONAL SHIPPING NAME: Petroleum distillates, nos
INTERNATIONAL ID NUMBER: UN1268
IMDG CLASS (10,20): 3, none PACKING GROUP: III
IMDG EMS: IATA CLASS (10,20): 3, none

SECTION 15 - REGULATORY INFORMATION

CHiP SUPPLY LABEL RISK PHRASES: (R10) Flammable. (R20) Harmful by inhalation. (R36/38) Irritating to eyes and skin. (R43) May cause sensitisation by skin contact. (R65) Harmful: may cause lung damage if swallowed. (R51/53) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CHiP SUPPLY LABEL SAFETY PHRASES: (S36/37) Wear suitable protective clothing and gloves. (S46) If swallowed, seek medical advice immediately and show this container or label. (S61) Avoid release to the environment. Refer to special instructions/safety data sheet. (S62) If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

CHiP SUPPLY LABEL SYMBOLS: Toxic to the environment, N Harmful, Xn

VOLATILE ORGANIC COMPOUNDS (VOCS): 91 grams/ltr

SECTION 16 - OTHER INFORMATION

PREVIOUS MSDS REVISION DATE: 02/07/01
REASON FOR REVISION: new formula

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

DISCLAIMER: To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

<END OF SDS>