

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 PROTECTIVE SKIN BARRIER
 IDENTIFICATION NUMBER: 20-3041
 PRODUCT USE/CLASS : Skin barrier

SUPPLIER:

Buehler UK, Ltd.	Buehler GmbH
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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	Carbon Dioxide Classification: No information; N.E.	124-38-9	30.0-60.0
02	Isopropyl myristate Classification: No information.	110-27-0	5.0-10.0
03	Liquified petroleum gas, sweetened Classification: F+, T, Carc. Cat. 2; R12-43	66476-86-6	5.0-10.0
04	Triethanolamine Classification: No information; N.E.	102-71-6	5.0-10.0

EXPOSURE LIMITS

ITEM	U/K		GERMANY		OTHER	SKIN
	8-HR REL	15-MIN STEL	8-HR MAK	15-MIN MAK	8-HR TWA	
01	5000 ppm	30000 ppm	10000 ppm	N/E	5000 ppm	NO
02	N.E.	N.E.	N.E.	N.E.	N.E.	NO
03	1000 ppm	N.E.	1000 ppm	N/E	N.E.	NO
04	5ppm	N.E.	N.E.	N/E	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3 - IDENTIFICATION OF HAZARDS

EMERGENCY OVERVIEW: (R48/20) Harmful: danger of serious damage to health by prolonged exposure through inhalation.

PRIMARY ROUTE(S) OF ENTRY: 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: 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.

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SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: Does not flash LOWER EXPLOSIVE LIMIT: N/A %
UPPER EXPLOSIVE LIMIT: N/A %

AUTOIGNITION TEMPERATURE: No data

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

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

SPECIAL FIREFIGHTING PROCEDURES: Keep containers away from heat sources.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wipe up excess with towel or rag. 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.

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

SKIN PROTECTION: None normally required.

EYE PROTECTION: Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: No information.

HYGIENIC PRACTICES: DO NOT smoke or eat during use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : -22 - -18 C VAPOR DENSITY : Is heavier than air
ODOR : Mild pleasant ODOR THRESHOLD : No data
APPEARANCE : White foam EVAPORATION RATE: Is faster than Butyl
SOLUBILITY IN H2O : Appreciable Acetate
FREEZE POINT : No data SPECIFIC GRAVITY: 0.2277
VAPOR PRESSURE : Very high pH @ 100.0 % : 8-9
PHYSICAL STATE : Aerosol VISCOSITY : N/A
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data
(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Prolonged exposure to heat.

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SECTION 10 - STABILITY AND REACTIVITY

INCOMPATIBILITY: No information.

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
Carbon Dioxide	No information	No information
Isopropyl myristate	Derm-rbt=5 g/kg	No information
Liquefied petroleum gas, sweetened	No information	No information
Triethanolamine	oral(rat)8g/kg	No information

Toxicological Test Data: No information.

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

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

ACUTE EFFECTS - INHALATION: High gas, vapour, mist or dust concentrations may be harmful if inhaled. Causes respiratory tract irritation.

ACUTE EFFECTS - INGESTION: Irritating to mouth, throat and stomach, with nausea.

CHRONIC OVEREXPOSURE EFFECTS: Petroleum gas has been listed as a suspected human carcinogen via inhalation.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: No information.

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: N/A IATA CLASS (1ø,2ø): 2.2, none

SECTION 15 - REGULATORY INFORMATION

CHiP SUPPLY LABEL RISK PHRASES: (R48/20) Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CHiP SUPPLY LABEL SAFETY PHRASES: (S35) This material and its container must be disposed of in a safe way. (S51) Use only in well-ventilated areas.

CHiP SUPPLY LABEL SYMBOLS: Harmful, Xn

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SECTION 16 - OTHER INFORMATION
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PREVIOUS MSDS REVISION DATE: 01/08/01
REASON FOR REVISION: new format

ADMINISTRATIVE REVISION DATE:
REASON FOR ADMINISTRATIVE REVISION:

VOLATILE ORGANIC COMPOUNDS (VOCS): 20 grams/ltr

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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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