

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Code: D1613
 Product name: BG01

1.2 Use of the substance / preparation

1.3 Company identification

Name: COMEC ITALIA SRL
 Full address: PIAZZALE DEL LAVORO 149
 District and Country: 21044 CAVARIA (VA) Italia
 Tel.: 0331 219516

e-mail address of the competent person responsible for the Safety Data Sheet

1.4 Emergency telephone

For urgent inquiries refer to: 0331 219516

2. Hazards Identification

2.1 Substance/Preparation Classification

This preparate is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn
 Phrases R: 20/21/22-36/38

2.2 Danger Identification

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
 IRRITATING TO EYES AND SKIN.

3. Composition / Information on ingredients

Contains:

Name	Concentration C	Classification
2-BUTOXYETHANOL	100,00 %	Xn R 20/21/22
Cas No 111-76-2		Xi R 36/38
CE No 203-905-0		
Index No 603-014-00-0		

The complete text of -R- phrases is specified in section 16.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Closed containers exposed to heat may lead to pressure rise and explode. For information regarding environmental risks, refer to section 12 of this sheet.

Extinguishing measures: carbon anhydride, foam, water, if not otherwise specified on the containers.

Individual protective equipment: equipment complete with helmet and face shield and protection of the neck, insulative jacket and trousers, with bands around the arms, legs and waist and selfbreathing apparatus.

6. Accidental release measures

Extinguish the sources of ignition or heat; cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.

For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures refer to the other sections of this sheet.

7. Handling and storage

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

8. Exposure control / personal protection.

8.1 Exposure limit values

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m ³	ppm	mg/m ³	ppm	
2-BUTOXYETHANOL	TLV-ACGIH		97				Skin
	OEL	EU	98				Skin
	OEL	IRL		20	50		Skin
	WEL	UK		25	50		Skin

TLV of solvent mixture: 97 mg/m³

8.2 Exposure controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

9. Physical and chemical properties

Colour	Colourless
Odour	
Appearance	liquid
Evaporation Rate	Completely soluble at 20°C
Reactive Properties	N.A.
Partition coefficient: n-octanol/water	log Pow = 0,83
pH	N.A.
Boiling point	170 °C
Melting point	< -70 °C
Flash point	65 °C
Lower explosive limit	1,1 % (v/v)
Upper explosive limit	10,6 % (v/v)
Ignition temperature	230 °C
Vapour pressure	0,8 hPa a 20°C
Molecular weight	118,18
Specific gravity	0,899-0,901 g/cc a 20°C
VOC (Directive 1999/13/EC) :	100,00 % - 900,00 g/litre of preparation
VOC (volatile carbon) :	60,93 % - 548,36 g/litre of preparation

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

2-Butoxyethanol may form explosive peroxides; it reacts with light metals, such as aluminium (ref. H.C.S.).

11. Toxicological information

Acute effects: inhalation, cutaneous absorption and ingestion of this product are harmful. This product may irritate mucosas, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

2-BUTOXYETHANOL: oral LD50 (mg/kg) 470 (RAT) ; dermal LD50 (mg/kg) 220 (RABBIT) ; inhalation LC50 (rat) 2,21 mg/l/4h

12. Ecological information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator.

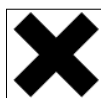
Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. Regulatory information

Xn



HARMFUL

- R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
- R36/38 IRRITATING TO EYES AND SKIN.
- S36/37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
- S46 IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Label EC - Nr. EC: 203-905-0

Contains:
2-BUTOXYETHANOL

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

16. Other information

Text of -R- phrases quoted in section 3 of the sheet.

R 20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R 36/38 IRRITATING TO EYES AND SKIN.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .
This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review

The following sections were modified:

01 / 09