



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

1 of 15 pages

1. Description of the item or the mixture and of the manufacturer

1.1 Product identifier

Light-curing block out material for dies and bite guard splints

1.2. Relevant identified uses of the substance or mixture

Block out material

1.2 Details on the manufacturer/supplier who provides the safety data sheet

YETI Dentalprodukte GmbH

Industriestr.3

78234 Engen

Germany

www.yeti-dental.com

www.dentalwax.com

info@yeti-dental.com

Phone +49 (0)7733-9410-0

Fax +49 (0)7733-9410-20

Contact numbers for technical information/application technique

Technical Service +49 (0)7733-9410-14 technik@yeti-dental.com

Dental Service +49 (0)7733-9410-20 labor@yeti-dental.com

Emergency number

Phone +49 (0)7733-9410-0

2. Potential Hazards

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

H315, H319, H335

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R37; R36/38

(Indication(s) of danger: irritant)



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

2 of 15 pages

2.2 Labelling elements according to Regulation (EC) No.1272/2008

Pictograms and signal word of the product



Signal word: Irritant

Hazardous components for the labelling

None

Hazard statements

H315 Causes skin irritations.
H319 Causes serious eye irritation.
H335 May irritate the respiratory tract.

Precautionary statements

P102 Keep out of the reach of children
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P262 Avoid contact with eyes, skin and clothing
P305/351/338 In case of contact with eyes: Rinse cautiously with plenty of water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P410+P403 Store in a dry, well-ventilated place protected from direct sun light
P411 Do not store and transport at temperatures above 25°C

Disposal:

P501 Dispose in accordance with the local/national/international regulations

2.3 Other hazards

The mixture does not meet the criteria for the classification as a PBT or Pub.

3. Composition/Information on ingredients

3.1 Substances

This product is a mixture of hazardous components.



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

3 of 15 pages

3.2 Mixtures

glass fillers

Emphasis: 0-70%

Acrylated oligomers

Emphasis: 0-23%

Classification according to regulation (EC) No.1272/2008

Classification according to directive 67/548/EEC; Xi; R 36/38/37

Indication of danger: Irritant

Substances with specified EC limit values

Not defined.

See section 16 for the full text of the stated hazard statements

4. First-Aid Measures

4.1 Description of the first aid measures

Remove contaminated clothing immediately

In the event of health disorders, seek medical advice.

In case of accidental inhalation

In case of respiratory tract irritation caused by the product, supply fresh air.

In the event of unconsciousness, bring the person in a recovery position for positioning and transport.

In case of accidental skin contact

Wash immediately with plenty of water and soap. In case of persisting skin irritation, consult a physician.

In case of accidental eye contact

Remove contact lenses if present and easy to do and rinse the eyes with the eyelids open with plenty of water for at least 15 minutes, seek medical advice if necessary

In case of accidental swallowing

Induce vomiting. Immediately rinse the mouth thoroughly. Do not attempt to neutralize. If nausea persists, consult a doctor.



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

4 of 15 pages

4.2 The most important acute and retardingly occurring symptoms and effects

Coordination disorders, reduced pain sensitivity

4.3 Indications of medical emergency aid or special treatment

In case of unconsciousness, call in an emergency physician.

5. Fire-Fighting Measures

5.1 Extinguishing agents

Suitable: Water spray jet, Foam (alcohol-resistant), carbon dioxide, powder, spray mist.

Unsuitable: Water jet

5.2 Special danger caused by the substance or the mixture of the hazardous components

In the event of a fire, dangerous vapours/gas can be released: Carbon monoxide, carbon dioxide. The vapours of the products are heavier than air and diffuse on the ground. Ignition over greater distance is possible.

5.3 Special protective measures for fire-fighting

Do not stay in danger area without wearing a self-contained breathing apparatus.

Cool hazardous containers with spray water from a safe distance.

Precipitate escaping vapours with water. Watch out for reignition.

Avoid penetration of the extinguishing water into surface and ground water as well as the ground.

Avoid contact with skin by wearing suitable protective clothing and keeping a safe distance.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency measures

Wear protective equipment. Eliminate sources of ignition. Provide for sufficient ventilation

Warn persons being present in the danger zone to stay away. Eliminate leaking containers and avoid contact with eyes and skin.

6.2 Environmental precautions

Avoid penetration of product and larger amounts of contaminated washing water into the waters and ground. Cover sewage to prevent penetration.

For restriction of emission of volatile organic compounds (VOC) dispose the solvent vapours in a waste gas purification system.



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

5 of 15 pages

6.3 Methods and material for containment and cleaning up

For larger quantities: Drain the product

For residues: Isolate discharged material with neutralizing non-combustible, absorbent material and for disposal collect in special containers in accordance with the local regulations

Only use spark-free working materials in the danger zone.

6.4 Reference to other sections

Obey protective measures in sections 7 and 8

7. Handling and storage

7.1 Precautions for safe handling

Do not leave the vessels open

Comply with minimum standards according to TRGS500. This involves general hygienic measures such as:

- Do not eat, drink or smoke in use.
- Wash your hands after use.
- Take off contaminated clothing/protective equipment prior to entering areas designated for the consumption of food and beverages

Fire and explosion protection

Vapours are heavier than air. Explosive vapour/mixtures with air can already emerge at normal temperatures. Keep away from oxidizing and combustion supporting materials



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

6 of 15 pages

7.2 **Conditions for safe storage subject to any incompatibilities** **Information on storage conditions**

Recommended storage temperature: Room temperature. Do not store and transport at temperatures above 25°C. Keep in a cool and dry place.

Storing the following substances together is prohibited:

- Pharmaceuticals, comestibles and animal feed
- Self-igniting substances
- Substances emitting flammable gases in contact with water
- Organic peroxide

Requirements for storage rooms and vessels

Store in a dry, cool and well-ventilated place protected from direct (sun) light

Storage category: 13 (non-flammable substances)

7.3 **Specific final applications**

Application in the field of dental technology for blocking out of dies and bite guard splints

8. **Exposure Controls/Personal Protection Equipment**

8.1 **Control parameters**

Not defined



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

7 of 15 pages

8.2 Exposure Control

Technical measures and appropriate working methods take precedence over the use of personal protection equipment. Ensure good ventilation which can be achieved by local suction or general exhaust air. Appropriate assessment methods for the verification of the effectiveness of the protective measures taken involve metrological and non-metrological investigative methods as stipulated in the Technical Rules for Hazardous Substances (TRGS) 402.

Personal protection equipment

Personal protection equipment must be selected specifically for the working place depending on concentration and quantity of the hazardous substances handled. Professional protective working clothing suffices.

Respiratory protection

Not necessary

Hand protection

Wear solvent- and alkali-resistant protective gloves conforming to EN 374
In the event of accidental skin contact, wash with water and soap.

Eye protection

Wear safety goggles conforming to EN 166:2001

Environmental exposure controls

See section 6 and 7



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

8 of 15 pages

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

State of aggregation kneadable mass or thick
Colour: different according to colouration
Odour characteristic depending on the acrylated oligomers

Safety-relevant data

<u>Parameter</u>	<u>Value</u>	<u>Method</u>	<u>Comment</u>
Vapour pressure (20°C)			not defined
Ignition temperature (solid/gaseous)			not defined
Flash point (°C)	>100°C	DIN 51758	closed cup
Odour threshold			not defined
Water solubility (20°C)			immiscible
Lower explosion limit			not defined
Upper explosion limit			not defined
Oxidizing properties			not applicable
pH-value (20°C)		DIN 19268	not applicable
Vapour density (20°C)			not defined (air=1)
Specific gravity (24°C)	1,880g/cm ³	ISO 2811-1	paste/liquid not defined
Boiling point/range (°C)	>250°C		
Melting/freezing point (°C)			not defined
Self-decomposition temperature			not applicable
Rate of evaporation			not defined
Partition coefficient n-Octanol			not defined
Viscosity, cup efflux time (23°C)			not defined
Viscosity, dynamic (mPa s/20°C)			not defined
Decomposition temperature (°C)			not defined
Ignition temperature			not defined
Explosive properties	The substance is not explosive.		



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

9 of 15 pages

9.2 Other information

No other data has been recorded.

10. Stability and Reactivity

10.1 Reactivity

No decomposition if used according to specifications. Intense heat needs be avoided by all means.

10.2 Chemical stability

The product is chemically stable under standard ambient room conditions (

10.3 Potential hazardous reactions

Not applicable

10.4 Conditions to be avoided

Protect from heat, sunlight and light to avoid premature polymerization

10.5 Incompatible materials

In case of contact with radical formers, the material polymerises.

10.6 Dangerous products of decomposition

None if used according to specifications.

10.7 Thermal decomposition

None if used according to specifications.

11. Toxicological information

No toxicological results available.

Acute toxicity

LD50: Not defined

Irritation

Causes irritations to the skin, eyes and the respiratory organ



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

10 of 15 pages

Corrosivity

On the basis of the available data the classification criteria aren't met.

Sensitization

On the basis of the available data the classification criteria aren't met

Repeated-dose toxicity

Not tested

Carcinogenicity

Not tested

Mutagenicity

Not tested

Reproduction toxicity

Not tested

Further information

According to available findings the product doesn't cause any health effects if properly handled and used.

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

11 of 15 pages

12.3	Bioaccumulation potential	not defined
12.4	Mobility in soil	not defined
12.5	Results of the PBT and vPvB assessment	Potential endocrine disruption. It is not known for the product to cause or prevent hormonal effects.
12.6	Other adverse effects	no information available

13. Disposal considerations

13.1 Waste treatment methods

If recycling is not possible, the waste has to be disposed in line with the regulations of the local disposal authorities.

Recommendation:

The precise waste code has to be determined in agreement with the disposal authority.

Waste code according to the European Waste Catalogue (AVV)

Unhardened 55 90 2 (Waste of cement and filling paste)

Hardened 16 03 05 (Organic waste containing dangerous substances)

Packaging - contaminated packaging

Fully emptied containers that have not been dried out are to be disposed of as vessels with harmful residues.

08 01 11 Packaging containing residues of dangerous substances or contaminated by dangerous substances

Cleaned packaging

Uncontaminated and cleaned packaging can be recycled.

14. Transport information

14.1	UN-number	UN 1247/3
14.2	UN proper shipping name	
	ADR/RID	not applicable
	IMDG-Code/ ICAO-TI/IATA-DGR	not applicable



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

12 of 15 pages

14.3 Transport Hazard class

Not a dangerous good according to transport regulations.

14.4 Packing group

Not applicable

14.5 Environmental threats/Labeling of environmentally hazardous substances

ADR/RID/IMDG-Code /ICAO-TI/IATA-DGR not applicable

Marine Pollutant not applicable

14.6 Special precautions for the user

None

14.7 Bulk transport according to Annex II of MARPOL Convention 73/78 and the IBC Code

Not applicable

15. Regulations

15.1 Safety, health and environmental regulations/specific legal regulations for the substance or the mixture

EU Regulation

Not applicable

Regulation (EC) 1005/2009 (Substances that deplete the ozone layer) **Inapplicable**

Regulation (EC) 850/2004 (Persistent organic pollutants) **Inapplicable**

Regulation (EC) 649/2012 (Export and import of dangerous chemicals) **Inapplicable**

Regulation (EC) 648/2004 (Detergents Regulation) **Inapplicable**

Authorisations in accordance with Title VII of the regulation (EC) 1907/2006 **None**

Restrictions in accordance with Title VIII of the regulation (EC) 1907/2006 **None**

National regulations

Water hazard class: 1 pursuant to AwSV

Verweis auf Technische Regeln für Gefahrstoffe (TRGS)

Comply with precautionary measures pursuant to TRGS 500

Storage category compliant with TRGS 510:3 not applicable

Solvents Regulation (31.BImSchV) not applicable

15.2 Chemical safety assessment

No safety assessment is carried out on the substance/mixture.



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

13 of 15 pages

16. Other information

Amendments to the last version

New version

Literature references and data sources

Preparation directive (1999/45/EC) as last amended by regulation No. 1907/2006
Substance directive (67/548/EC) as last amended by directive 2009/2/EC
REACH Regulation (EC) 1907/2006 as last amended by regulation (EU) No. 474/2014
CLP- Regulation (EC) 1272/2008 as last amended by regulation (EU) No. 605/2014

Internet

¹<http://www.baua.de>
²<http://publikationen.dguv.de>
³<http://gestis.itrust.de>
⁴<http://logkow.cristi.nrc.ca>
⁵<http://www.gischem.de>
⁶<http://echa.europa.eu/en/candidate-list-table>

Hazard warnings referred to in section 2 and 3 as per Regulation EC-No.1272/2008

H315 Causes skin irritations
H319 Causes serious eye irritation
H335 May irritate the respiratory tract



Safety Data Sheet

According to Regulation (EC) No.1272/2008 (REACH-VO)

Trade name The Bloc liquid – light-curing 2 ml-syringe (Item n° 890-1201)
 The Bloc paste – light-curing 3g-syringe (Item n° 890-1200)
Effective from: 22/05/2015
Version: 2.0
Revised on: 21/05/2015
Replaced Version: 1.0 of 14/08/2011

15 of 15 pages

Legend

ADR	European Agreement on the international carriage of dangerous goods
AwSV	Ordinance on Installations for the Handling of Substances Hazardous to Water
BImSchV	Ordinance for Implementation of the Federal Immission Control Act
CAS	Chemical Abstracts Service
DIN	Standard of the German Institute for Standardization
EC	Effective Concentration
EG	European Community
EEC	European Economic Community
EN	European Standard
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Code for Dangerous Goods
ISO	Standard of International Standards Organization
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Dose
Log Kow	Octanol-water partitioning coefficient
MARPOL	Maritime Pollution Convention=International Convention for the Prevention of Pollution from Ships
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative, toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative
VwVwS	German Administrative Regulation on Substances Hazardous to Water
WGK	Water hazard class