

Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifier**

Trade name

Durol (REF 52111)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Manufacturing of dental prosthesis in a dental laboratory

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG Wilhelm-Herbst-Str. 1 28359

+49/ 421/ 2028 - 0 Telephone no. Fax no. +49/ 421/ 2028 - 115 e-mail msds@bego.com

Information provided by / telephone

Bremen

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 - 130 (Chief Development Officer alloys)

Advice on Safety Data Sheet

msds@bego.com

1.4 **Emergency telephone number**

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eve Dam. 1; H318 Flam. Liq. 3; H226 STOT SE 3: H336

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms









Signal word

Danger

Hazardous component(s) to be indicated on label:

n-butyl acetate butan-1-ol

Hazard statement(s)

H226 Flammable liquid and vapour. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

PBT assessment No data available. vPvB assessment No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additi	ional info	ormatio	n	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration			%
	REACH no						
1	n-butyl acetate						
	123-86-4	EUH066	>	50.00			wt%
	204-658-1	Flam. Liq. 3; H226					
	607-025-00-1	STOT SE 3; H336					
	-						
2	butan-1-ol						
	71-36-3	Acute Tox. 4*; H302			<	10.00	wt%
	200-751-6	Eye Dam. 1; H318					
	603-004-00-6	Flam. Liq. 3; H226					
	-	Skin Irrit. 2; H315					
		STOT SE 3; H335					
		STOT SE 3; H336					

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*,**,***,****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Wash off immediately with soap and water. Don't use solvents.

After eve contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Water spray jet; Alcohol-resistant foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Cool endangered containers with water spray jet. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Pick up rest with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Keep only in the original container. Containers which are opened must be carefully closed and kept upright to prevent leakage.

Incompatible products

Do not store together with: oxidizing substances; explosive substances; spontaneously combusting substances; flammable toxic substances; inflammatory substances; oxidizing agents

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	n-butyl acetate	123-86-4		204-658-1	
	List of approved workplace exposure limits (WELs) / EH40				
	Butyl acetate				
	WEL short-term (15 min reference period)	966	mg/m³	200	ppm
	WEL long-term (8-hr TWA reference period)	724	mg/m³	150	ppm
	EU 2019/1831				
	n-Butyl acetate				
	WEL short-term (15 min reference period)	723	mg/m³	150	ppm
	WEL long-term (8-hr TWA reference period)	241	mg/m³	50	ppm
2	butan-1-ol	71-36-3		200-751-6	
	List of approved workplace exposure limits (WELs) / EH40				
	Butan-1-ol				
	WEL short-term (15 min reference period)	154	mg/m³	50	ppm
	Comments	Sk			

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

9.1 Information on basic physical and chemical properties

State of aggregation			
liquid			
Form/Colour			
liquid colourless to pale yellow			
Odour characteristic; ester-like			
pH value No data available			
Boiling point / boiling range Value	Τ	132	°C
		102	0
Melting point/freezing point No data available			
Decomposition temperature No data available			
Flash point			
Value		26	°C
	1		-
Ignition temperature No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density		0.00	m/sm3
Value		0.96	g/cm³
Solubility in water		00	
Reference temperature Comments	partially miscible	20	°C
	Partially Illisoiple		
Solubility No data available			
	10)		
Partition coefficient n-octanol/water (log value) No data available	ie)		
Viscosity			
No data available			

9.2 Other information

Particle characteristics
No data available



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

None, when used as directed.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from sun.

10.5 Incompatible materials

Earth alkali metals; Alkali metals; Alcohols; Oxidizing agents; Peroxides

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acu	te oral toxicity				
No	Substance name		CAS no.		EC no.
1	n-butyl acetate		123-86-4		204-658-1
LD5	0	>		5000	mg/kg bodyweight
Spe	cies	rat			

Acu	Acute dermal toxicity				
No	Substance name		CAS no.	EC no.	
1	n-butyl acetate		123-86-4	204-658-1	
LD5	0	>	50	00 mg/kg bodyweigh	
Spe	cies	rabbit			

Acu	Acute inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	n-butyl acetate		123-86-4		204-658-1	
LC5	0			390	mg/l	
Dura	ation of exposure			4	h	
State of aggregation		Vapour				
Spe	cies	rat				

Skin corrosion/irritation					
No Substance name		CAS no.		EC no.	
1 n-butyl acetate		123-86-4		204-658-1	
Duration of exposure			24	h	
Species	rabbit				
Evaluation	irritant				

Serious eye damage/irritation					
No Substance nam	ne	CAS no.	EC no.		
1 n-butyl acetate		123-86-4	204-658-1		
Duration of exposure		24	h		
Species	rabbit				
Evaluation	irritant				

Respiratory or skin sensitisation	
No data available	



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Inhalation of vapours may lead to headache, drowsiness and dizziness. Eye contact with the product may lead to irritation. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	icity to fish (acute)		
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
LC5	0	62	g/l
Dura	ation of exposure	96	h h
Spec	cies	Leuciscus idus	
Meth	nod	DIN 38412	

Toxicity to fish (chronic)

No data available

Tox	Toxicity to Daphnia (acute)				
No	Substance name	CAS no.	EC no.		
1	n-butyl acetate	123-86-4	204-658-1		
EC5	0	7	mg/l		
Dura	ation of exposure	2	4 h		
Species		Daphnia magna			

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bac	Bacteria toxicity				
No	Substance name	CAS no.	EC no.		
1	n-butyl acetate	123-86-4	204-658-1		
EC5	0	959	mg/l		



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

Duration of exposure	18	h
Species	Pseudomonas putida	

12.2 Persistence and degradability

Biodegradability				
No	Substance name	CAS no.	EC no.	
1	n-butyl acetate	123-86-4	204-658-1	
Valu	e	(98 %	
Dura	ation	2	28 d	
Metl	hod	OECD 301 D		
Eval	luation	readily biodegradable		

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment		
PBT assessment	No data available.	
vPvB assessment	No data available.	

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 3
Classification code F1
Packing group III
Hazard identification no. 30
UN number UN1866

Proper shipping name RESIN SOLUTION

Tunnel restriction code D/E Label 3

14.2 Transport IMDG

Class 3
Packing group III
UN number UN1866

Proper shipping name RESIN SOLUTION

EmS F-E, S-E



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

Label 3

14.3 Transport ICAO-TI / IATA

Class 3
Packing group III
UN number UN1866
Proper shipping name Resin solution

Label 3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex

No. 3, 40

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

P5c

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed.
H315 Causes skin irritation.



Trade name: Durol (REF 52111)

Current version: 2.1.1, issued: 26.03.2021 Replaced version: 2.1.0, issued: 10.04.2019 Region: GB

H335

May cause respiratory irritation.

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 621324