



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

### **Section 1: Identification of the substance/mixture and of the company**

#### **1.1 Product identifier**

Substance name Trade name: NOVOdur Liquids  
Article number starting: F03 / UDI 763029670003P

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

Relevant identified uses:

Mixture for the fabrication of prosthetic restorations

Uses advised against:

All applications that deviate from the identified use

#### **1.3 Details of the supplier providing the safety data sheet**

**Manufacturer / Supplier**

NOVODENT Ets.

**Street/PO Box**

Industriestrasse 32

**Nat. no./Postal code/City**

Liechtenstein - 9487 - Bendern

**Contact point for technical information**

NOVODENT Ets.

**Phone / Fax / E-Mail**

+423 377 1500 / -09 / E-Mail: msds@novodent.com

#### **1.4 Emergency phone number**

+423 377 1500 (Novodent Ets.)  
+41 44 251 51 51 oder 145 (Tox-Zentrum)

### **Section 2: Potential hazards**

#### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Skin.sens. H317, Eye irrit. H319, Skin irrit. H315, respiratory irrit. H335, Liq.2. H225

#### **2.2 Labelling elements**

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

**Pictogram:**



**Signal word:** Danger



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

### Hazard-determining components for labelling

**contains:** Methylmethacrylat

#### Hazard information:

H315	May cause skin irritation
H317	May cause allergic skin reactions
H319	Causes severe eye irritation
H335	May cause respiratory irritation
H225	Highly flammable liquid and vapour

#### Safety information:

P101	Keep out of the reach of children.
P280	Wear protective gloves / clothing / eye protection / face protection.
P262	Do not get in eyes, on skin or on clothing.
P261	Avoid breathing dust/fume/gas/mist/vapour/aerosol.
P501	Dispose of contents/container in accordance with local regulations.
P210	Keep away from heat/sparks/open flames/hot surfaces. Do not smoke
P352	<i>Wash/shower skin with water</i>
P305	In case of contact with eyes:
P351	<i>Take off immediately all contaminated, soaked clothing.</i>
P338	<i>Remove any contact lenses if possible and continue rinsing.</i>
P273	<i>Avoid release into the environment</i>

#### Further labelling elements

No

### 2.3 Other dangers

PBT or vPvB. Indeterminate, mixture.  
May polymerise on excessive heating.

## Section 3: Composition/information on ingredients

### 3.1 Substances

This product is a mixture as listed under 3.2.

### 3.2 Mixtures

Substance Name: Methylmethacrylat

EC-Nr.: CAS-No. : 80-62-6 Index-No.: REACH Registration No.:

Content : 94 %

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

Skin.Sens. H317, respiratory.irrit. H335, Skin.irrit H315, Flam. Liq.2. H225

Substance Name: Butandiol dimethacrylat

EC No.: CAS No. : 82339-26-2 Index No.: REACH Registration No.:

Content : 5 %

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

Skin.irrit. H315, Eye.irrit. H319, Skin.sens. H335, Stot.se 3

Substance Name: Dimethyl-p-toluidin

EC No.: CAS No. : 99978 Index No.: REACH Registration No.:

Content : < 1 %

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

Ak.tox.3.inh.dem.oral H331, Chron.H20.att.3 H412<sup>3</sup>



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

(For the wording of the listed hazard statements see section 16 and 2.2)

### **Section 4: First aid measures**

#### **4.1 Description of the first aid measure**

##### **After inhalation**

Provide plenty of fresh air and consult a doctor if symptoms persist.

##### **After skin contact**

Wash off with soap and water and rinse well. Consult a doctor if skin irritation persists.

##### **Nach Augenkontakt**

Remove contact lenses. Rinse immediately under running water for several minutes with the eyelids open.  
Consult a doctor if symptoms persist.

##### **After swallowing**

Rinse out mouth and drink plenty of water. Avoid vomiting and consult a doctor if symptoms persist.

#### **4.2 Most important symptoms and effects, both acute and delayed**

None known.

#### **4.3 Indications for immediate medical help or special treatment**

None known.

### **Section 5: Fire-fighting measures**

#### **5.1 Extinguishing agent**

Suitable: CO<sub>2</sub>, extinguishing powder or water spray. In the case of larger fires, use water spray or alcohol-resistant foam.

Unsuitable: Full water jet, high-pressure water jet

#### **5.2 Special hazards arising from the substance or mixture**

None known.

#### **5.3 Advice for firefighters**

In case of fire, cool the container with water spray.

### **Section 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use protective equipment according to section 8.

#### **6.2 Environmental protection measures**

Do not allow to enter drains/surface waters/groundwater.

#### **6.3 Methods and material for retention and cleaning**

Absorb with liquid-binding materials (sand, diatomaceous earth, acid binders, universal binders, sawdust) and ensure adequate ventilation.



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

### 6.4 Reference to other sections

Protective measures under point 7 and 8.

## Section 7: Handling and storage

### 7.1 Protective measures for safe handling

#### **Measures to protect against fire and explosions**

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

Avoid wearing suitable protective clothing. Keep away from sources of ignition - do not smoke and take measures against electrostatic charging.

#### **Measures to prevent dusts and aerosols**

Always keep the container closed.

#### **Measures to protect the environment**

Prevent product and large quantities of contaminated wash water from entering water and soil. avoid. Cover sewage systems to prevent product from entering the sewage system.

#### **General hygiene measures**

Do not eat, drink or smoke in areas where work is being done.

- Wash hands after use.

- Remove contaminated clothing and protective equipment before entering areas where food is being where food is consumed

### 7.2 Conditions for safe storage taking into account incompatibilities

#### **Information on storage conditions**

2 °C - 30 °C | 35.6 °F - 86 °F (because of quality)

#### **Requirements for storage rooms and containers**

Store only in the original container in a cool place protected from light. Equipment in the vicinity should be EX protected.

Storage class: 3 highly flammable

### 7.3 Specific end uses

#### **Industry and sector-specific guidelines**

For further information, please refer to our instructions for use

## Section 8: Exposure controls / Personal protective equipment

### 8.1 Parameters to be monitored

#### **Occupational exposure limit values and/or biological limit values**

#### **Occupational exposure limit values (OELs) Germany**



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

Methylmetacrylat CAS 80-62-6	
MAK (Switzerland)	Short-term value 420 E mg/m <sup>3</sup> 100 ml/m <sup>3</sup> Long-term value 210 E mg/m <sup>3</sup> 50 ml/m <sup>3</sup>
MAK (Austria)	Short-term value 420 E mg/m <sup>3</sup> 100 ml/m <sup>3</sup> Long-term value 210 E mg/m <sup>3</sup> 50 ml/m <sup>3</sup>
AGW (Germany)	210 mg/m <sup>3</sup> 50ml/m <sup>3</sup> 2(I); DFG, EU, Y

### 8.2 Exposure controls and monitoring

#### Suitable technical control devices

No further information, see point 7.

#### Individual protective measures - personal protective equipment

##### Eye / face protection

Use safety goggles with side shields according to EN 166:2001. In areas of possible exposure risk, provide eye wash facilities and safety showers be provided.

##### Skin protection

###### Gloves

Latex gloves are not suitable

###### Prolonged exposure:

Glove material: Nitrile rubber (NBR)

Layer thickness (mm): Layer thickness 0.56 mm

Penetration time (min.): >480

###### Short-term exposure:

Glove material: Nitrile rubber (NBR)

Layer thickness (mm): Layer thickness 0.10 mm

Penetration time (min.): >30

##### Other skin protection

Wear protective gloves. Recommendations are listed below. Other protective materials may be used depending on the user's risk assessment. Skin protection creams can help protect exposed skin, but should not be applied after exposure has occurred.

##### Respiratory protection

In case of short or low exposure use respiratory filter device; in case of intensive or prolonged exposure use self-contained breathing apparatus.

###### Recommended filter device for short-term use:

Filter A1

Filter A2

Filter A3



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

### Heat / cold protection

Observe storage conditions according to GBA. Keep away from light and heat sources.

### Limitation and monitoring of environmental exposure

No information available.

## **Section 9: Physical and chemical properties**

### **9.1 Information on the basic physical and chemical properties**

Appearance	
- State of aggregation:	Liquid
- Colour :	Clear light yellow
Smell :	Characteristic ester-like
Smell threshold :	No data available
pH value :	Undetermined
Melting point/freezing point :	- 48°C (- 54°F)
Initial boiling point and boiling range :	101°C (213°F)
Flash point :	10 °C (50 °F) Cleveland
Evaporation rate :	Not determined
Flammability (solid, gas) :	No data available
Upper/lower flammability or explosion limits :	The product is not explosive
Vapour pressure :	47 hPa @ 20°C (68°F)
Vapour density :	Not applicable
relative density :	0,943 g/cm <sup>3</sup> on 20°C (68°F)
Solubility(s) :	1,6g/L on 20°C (68°F)
Partition coefficient:	Not determined
n-octanol/water :	Not determined
Auto-ignition temperature :	The product is not self-igniting
Decomposition temperature :	Not determined
Viscosity :	Not determined
explosive properties :	None

### **9.2 Other details**

% Volatile substances (wt.%):	Not determined
Volatile organic compounds:	Not determined
Solvent content organic:	Not determined
Solids content	Not determined

## **Section 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reactions known.

### **10.2 Chemical stability**

The product is chemically stable under normal ambient conditions (room temperature).

### **10.3 Possibility of hazardous reactions**



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

Formation of explosive gas mixtures with air. Reactions with strong oxidising agents. Polymerisation with evolution of heat.

### 10.4 Conditions to be avoided

Heating. A range from approx. 15 Kelvin below the flash point is considered critical. Exposure to light.

### 10.5 Incompatible materials

Avoid initiators that produce free radicals and contact with peroxides. Rubber and various plastics.

### 10.6 Hazardous decomposition products

None under normal storage and handling conditions.

## Section 11: Toxicological information

### 11.1 Data on toxicological effects

**acute toxicity**

Oral	Irritates the mucous membranes.
Dermal	Irritates the skin.
Inhalation	Not classified, Based on available data, the classification criteria are not met.

#### Corrosive/irritant effect on the skin

Irritates the skin and mucous membranes.

#### Serious eye damage/irritation

No eye irritation

#### Sensitisation of the

- Respiratory tract
- Skin

Causes sensitisation

May cause allergic skin reactions.

#### Germ cell mutagenicity

None

#### Carcinogenicity

Not classified, Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Not classified, Based on available data, the classification criteria are not met.

#### Specific target organ toxicity after a single exposure

Inhalation - May cause respiratory irritation.

#### Specific target organ toxicity in case of repeated exposure

Not classified, Based on available data, the classification criteria are not met.

#### Aspiration risk

Not classified, Based on available data, the classification criteria are not met.

### TOXICITY DATA

#### Acute toxicity

Oral	Rat	Akute LD50	7.872 mg/kg	Literature
Dermal	Rabbit	Akute LD50	> 5.000 mg/kg	Literature
Inhalation	Mouse	Sensitisation		Literature

#### Local effect on skin and eyes

Acute irritation	Dermal	Rabbit	Irritating to skin	Literature
Acute irritation	Eye	Mouse (LLNA)	No eye irritation	Literature

#### Allergic sensitisation

Sensitisation	Skin	Sensitisation	Literature
Sensitisation	Respiration	Sensitisation	Literature

#### Other information

Toxicity data are from studies funded by raw material manufacturers or from generally available literature. Prolonged or repeated skin or mucous membrane contact of non-polymerised material may cause irritation symptoms.



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

### Symptoms and effects (delayed and chronic) with information on routes of exposure. also: information on toxicokinetics, metabolism and distribution

Not classified, Based on available data, the classification criteria are not met.

## Section 12: Environmental information

### 12.1 Toxicity

Water hazard class 1 (list classification):

Slightly water-repellent

Do not allow to enter waters or drains.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Soil mobility

No data available

### 12.5 Result of the PBT and vPvB assessment

unspecified

### 12.6 Other harmful effects

No data available

## Section 13: Notes on disposal

### 13.1 Waste treatment process

#### Treatment of contaminated packaging

Dispose of to a controlled landfill or incineration line in accordance with local regulations.

#### Waste code according to the List of Wastes Ordinance (AVV)

150110 Hazardous waste

#### Special precautionary measures

None

#### Relevant EU or other regulations

No data available

## Section 14: Transport information

### 14.1 UN-Number

UN 1247

### 14.2 Proper UN shipping name

ADR/RID





## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

UN1247 METHYLMETHACRYLAT MONOMER, STABILIZED

### IMDG-Code / ICAO-TI / IATA-DGR

UN1247 METHYLMETHACRYLAT MONOMER, STABILIZED

#### 14.3 Transport hazard classes

##### ADR/RID



**Class:** Flammable liquid substances

**Hazard label:** 3

##### Transport/further information

Limited quantity (LQ) 1L  
Excepted quantities (EQ) Code E2  
Transport category 2  
Tunnel restriction code D/E  
Packing group 2

##### IMDG



**Klasse:** Flammable liquid substances

**Gefahrenzettel:** 3

##### Transport/further information

Limited quantity (LQ) 1L  
Excepted quantities (EQ) Code E2  
Transport category 2  
Tunnel restriction code D/E

##### IATA



**Klasse:** Flammable liquid substances

**Gefahrenzettel:** 3

##### Transport/further information

None

#### 14.4 Packaging group

II (substances with medium danger)

#### 14.5 Environmental hazards

##### Indicator for environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: ☐ Yes / ☒ No

Marine Pollutant: ☐ Yes / ☒ No

#### 14.6 Special precautions for the user

Always follow the instructions for use.

#### 14.7 Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code

Not applicable



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

### Section 15: Legislation

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

Regulation (EC) No 2037/2000 (substances that deplete the ozone layer):

Not applicable

Regulation (EC) No 850/2004 (persistent organic pollutants):

Not applicable

Regulation (EC) No 689/2008 (export and import of dangerous chemicals):

Not applicable

Regulation (EC) No 648/2004 (Detergents Regulation):

Not applicable

Restrictions under Title VIII of Regulation (EC) No 1907/2006:

Not applicable

#### **National regulations**

##### **Water hazard class**

Water quality class 2 (list classification)

#### **15.2 Chemical Safety Assessment**

The mixture has not been subjected to a safety assessment.

### Section 16: Other information

#### **Changes compared to the last version**

Transfer to new software, toxicological values taken from literature.

#### **Abkürzungen**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AwSV	Ordinance on Installations for the Handling of Substances Hazardous to Water
BImSchV	Ordinance on the Implementation of the Federal Immission Control Act
CAS	Chemical Abstracts Service
DIN	Standard of the German Institute for Standardisation
EC	Effective concentration
EG	European 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
ICATO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Code for Dangerous Goods
ISO	Standard of the International Standards Organization
IUCLID	International Uniform Chemical Information Database
LC	Lethal concentration
LD	Lethal dose
Log Kow	Partition coefficient between octanol and water
MARPOL	Maritime Pollution Convention = Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative, toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail



## Safety data sheet according to Regulation (EU) 2020/878

**Product designation:** NOVOdur Liquids

**Version:** 2024-09-22

**Replayed Version:** 2021-11-08

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TRGS	Technical regulations for hazardous substances
UN	United Nations
VOC	Volatile Organic Compounds (VOCs)
vPvB	Very persistent and very bioaccumulative
VwVwS	Administrative regulation on substances hazardous to water
WGK	Water hazard class

### References and data sources

#### Regulations

REACH Regulation (EC) No 1907/2006, as last amended by Regulation (EU) 2018/675

CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2018/669

#### Internet

<http://www.llv.li/kontakt/3408/amt-fur-umwelt>

<http://publikationen.dguv.de>

<http://dguv.de/ifa/stoffdatenbank>

<http://www.gischem.de>

<http://echa.europa.eu/en/candidate-list-table>

<http://www.ncbi.nlm.nih.gov/pubmed/>

#### Methods according to Article 9 of Regulation (EC) No 1272/2008 have been used to assess the information for the purpose of classification

Physical hazards: Evaluation of test data

Health and environmental hazards: Calculation methods

#### Wording of the hazard statements and/or precautionary statements referred to in section 2 to 15

H315	May cause skin irritation
H317	May cause allergic skin reactions
H319	Causes severe eye irritation
H335	May cause respiratory irritation

#### Training for employees

No special training is required for activities with the above-mentioned product because they are used by dental technicians.

#### Further information

This product is part of a 2-component system.

This information is without guarantee or warranty. We do not accept any legal responsibility for it.

SDS Manufactured by: NOVODENT Ets., address and contact see point 1.3

#### Approach with exposure scenarios

Not applicable as no exposure scenarios need to be developed for mixtures.