

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 2020.03.02

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## **Elastic Resin**

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

- 1.1 Product identifier Product Name: Elastic Resin Product code: FLELCL01
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: For use in Formlabs SLA Printers Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

Supplier:

**Germany** Formlabs GmbH

Nalepastr. 18

+49 30 555 795 880

12459 Berlin

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer: United States Formlabs, Inc 35 Medford St Suite 201 Somerville, MA 02143 +1 617 855 0762 sds@formlabs.com

sds@formlabs.com

## 1.4 Emergency telephone number:

1-800-424-9300 (24/7)

#### SECTION 2: Hazard(s) identification

# 2.1 Classification of the substance or mixture:

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

Skin irritation, category 2
Serious eye damage, category 1
Skin sensitization, category 1
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation Chronic aquatic hazard, category 1
Hazard-determining components of labeling: Isobornyl acrylate

Acrylate Monomer(s)

Additional Information: None

2.2 Label elements

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



Signal word: Danger Hazardstatements: H315 Causes skin irritation

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H3	318 Causes serious eye damage
H3	317 May cause an allergic skin reaction
H3	335 May cause respiratory irritation
H4	10 Very toxic to aquatic life with long lasting effects
Preca	autionary statements:
P2	64 Wash skin thoroughly after handling
P2	80 Wear protective gloves/protective clothing/eye protection/face protection
P2	61 Avoid breathing dust/fume/gas/mist/vapours/spray
P2	72 Contaminated work clothing should not be allowed out of the workplace
	71 Use only outdoors or in a well-ventilated area
P2	73 Avoid release to the environment
P3	02+P352 IF ON SKIN: Wash with plenty of soap and water
P3	32+P313 If skin irritation occurs: Get medical advice/attention
Р3	62 Take off contaminated clothing
P3	05+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
pre	esent and easy to do. Continue rinsing
P3	33+P313 If skin irritation or rash occurs: Get medical advice/attention
P3	63 Wash contaminated clothing before reuse
P3	04+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P3	91 Collect spillage
P4	03+P233 Store in a well-ventilated place. Keep container tightly closed
P4	05 Store locked up
P5	01 Dispose of contents/container in accordance with local/regional/national regulations

# 2.3 Other hazards: None known

# SECTION 3: Composition/information on ingredients

- 3.1 Substance: Not applicable.
- 3.2 Mixture:

Identification	REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 5888-33-5 EC number: 227-561-6	_	Isobornyl acrylate	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3 (RI); H335 Aquatic Chronic 2; H411	15-25
CAS number: Trade Secret EC number: – Trade Secret		Acrylate Monomer(s)	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318	25-45

# Additional information: None Full Text of H and EUH statements: See section 16

# SECTION 4: First aid measures

4.1 Description of first aid measures

# General notes:

Show this Safety Data Sheet to the doctor in attendance. **Following inhalation:** 

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Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

#### Following skin contact:

Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes. See a physician if irritation persists.

#### Following eye contact:

Immediately flush eyes, under eyelids with water for 15 minutes. Remove contact lenses, if easy to do so. Protect unexposed eye. Continue rinsing on the way to hospital.

#### Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by physician or poison control center. Rinse mouth with water. Never give anything to drink to an unconscious person. Seek medical advice.

#### Self-Protection of the first aider:

Not determined or not available.

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

#### Acute symptoms and effects:

Symptoms may include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time).

#### Delayed symptoms and effects:

Symptoms of poisoning may appear several hours later.

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Specific treatment:

None known.

#### Notes for the doctor:

Treat symptomatically.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

#### Suitable extinguishing media:

Alcohol- resistant foam, Dry chemical or Carbon dioxide

#### Unsuitable extinguishing media:

None known

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

Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors.

# 5.3 Advice for firefighters

#### Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

#### Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

#### SECTION 6: Accidental release measures

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

#### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

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environment must be avoided.

# 6.3 Methods and material for containment and cleaning up:

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

## 6.4 Reference to other sections:

For disposal see section 13.

For personal protection see section 8.

#### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

## 7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use

# 7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection







#### 8.1 Control parameters

Only those substances with limit values have been included below. **Occupational Exposure limit values:** 

No occupational exposure limits noted for the ingredient(s).

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Derived No Effect Level (DNEL):

Ingredient Name: Isobornyl acrylate

#### **CAS #:** 5888-33-5

	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Systemic	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	1.39 mg/kg bw/day

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	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Local	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Systemic Effects	Chronic - Oral	0.83 mg/kg bw/day
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	0.83 mg/kg bw/day
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

# Ingredient Name: Acrylate Monomer(s)

# CAS #: Trade Secret

Acute - Oral	Not determined or not applicable.		
Acute - Inhalation	No hazard identified		
Acute - Dermal	No hazard identified		
Chronic - Oral	Not determined or not applicable.		
Chronic - Inhalation	No hazard identified		
Chronic - Dermal	8.2 mg/kg bw/day		
Acute - Oral	Not determined or not applicable.		
Acute - Inhalation	3 mg/m <sup>3</sup>		
Acute - Dermal	Hazard identified but no DNEL available		
Chronic - Oral	Not determined or not applicable.		
Chronic - Inhalation	3 mg/m <sup>3</sup>		
Chronic - Dermal	Hazard identified but no DNEL available		
Acute - Oral	No hazard identified		
Acute - Inhalation	No hazard identified		
Acute - Dermal	No hazard identified		
Chronic - Oral	No hazard identified		
Chronic - Inhalation	No hazard identified		
Chronic - Dermal	No hazard identified		
	Acute - Inhalation Acute - Dermal Chronic - Oral Chronic - Inhalation Chronic - Dermal Acute - Oral Acute - Oral Acute - Inhalation Acute - Dermal Chronic - Oral Chronic - Dermal Acute - Oral Acute - Oral Acute - Inhalation Acute - Dermal Chronic - Dermal Chronic - Dermal Chronic - Inhalation		

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	Acuto Oral	Net determined as not emplicable
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

# Predicted No Effect Concentration (PNEC):

# Ingredient Name: Isobornyl acrylate

	CAS	#:	5888-33-5
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Environmental Protection Target	PNEC
Fresh water	0.001 mg/L
Freshwater sediments	0.145 mg/kg
Marine water	0 mg/L
Marine sediments	0.015 mg/kg
Food chain	Not determined or not available.
Microorganisms in sewage treatment	2 mg/L
Soil (agricultural)	0.029 mg/kg
Air	No hazard identified

# Ingredient Name: Acrylate Monomer(s)

# CAS #: Trade Secret

Environmental Protection Target	PNEC
Fresh water	0.014 mg/L
Freshwater sediments	0.086 mg/kg
Marine water	0.001 mg/L
Marine sediments	0.009 mg/kg
Food chain	Not determined or not available.
Microorganisms in sewage treatment	10 mg/L
Soil (agricultural)	0.037 mg/kg
Air	No hazard identified

# Information on monitoring procedures:

Not determined or not applicable.

# 8.2 Exposure controls

# Appropriate engineering controls:

Effective ventilation in all processing areas.

# Personal protection equipment

Eye and face protection:

Safety goggles

# Skin and body protection:

Impervious clothing and chemical resistant gloves

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory protection

## General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

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# Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
Instruction measures to prevent exposure:	Not determined or not applicable.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

#### Risk management measures to control exposure:

Not determined or not applicable.

### SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Appearance	Transparent Violet Liquid
Odor	Characteristic acrylate
Odor threshold	Not determined or not available.
рН	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	> 100°C
Flash point (closed cup)	> 93.5°C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not Flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	1.02 g/cm3
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	2950 @ 35°C
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.
Other information	

# 9.2 Other information

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity:

Does not react under normal conditions of use and storage.

# 10.2 Chemical stability:

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

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# 10.3 Possibility of hazardous reactions:

Stable under normal storage and handling conditions.

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid:

Incompatible materials.

Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

#### 10.5 Incompatible materials:

Strong oxidizing agents.

Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

#### 10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

#### Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

#### Substance data:

Name	Route	Result
Isobornyl acrylate	oral	LD50 Rat: 4890 mg/kg
	dermal	LD50 Rabbit : >5000 mg/kg
Acrylate Monomer(s)	oral	LD50 Rat : 830 mg/kg
	dermal	LD50 Rabbit: 520 mg/kg

#### Skin corrosion/irritation

#### Assessment:

Causes skin irritation.

Product data:

No data available.

#### Substance data:

Name	Result
Isobornyl acrylate	Causes skin irritation.
Acrylate Monomer(s)	Causes skin irritation.

#### Serious eye damage/irritation

#### Assessment:

Causes serious eye damage.

Product data:

No data available.

#### Substance data:

Name	Result
Isobornyl acrylate	Causes serious eye irritation.
Acrylate Monomer(s)	Causes serious eye damage.

#### Respiratory or skin sensitization

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May cause an allergic skin reaction.

Product data:

No data available.

# Substance data:

Name	Result
Isobornyl acrylate	May cause an allergic skin reaction.
Acrylate Monomer(s)	May cause an allergic skin reaction.

#### Carcinogenicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met. **Product data:** No data available.

Substance data: No data available.

#### **Reproductive Toxicity**

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

#### Specific target organ toxicity (single exposure)

#### Assessment:

May cause respiratory irritation.

#### Product data:

No data available.

Substance data:

Name	Result
Isobornyl acrylate	May cause respiratory irritation.

## Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

#### Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

#### Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

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# Other information:

No data available.

# SECTION 12: Ecological information

## 12.1 Toxicity

#### Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

# Product data: No data available.

Substance data: No data available.

## Chronic (long-term) toxicity

## Assessment:

Very toxic to aquatic life with long lasting effects.

Product data: No data available.

Substance data: No data available.

#### 12.2 Persistence and degradability

Product data: No data available.

Substance data: No data available.

#### 12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

# 12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

# 12.5 Results of PBT and vPvB assessment

**PBT** assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

- **12.6** Other adverse effects: No data available.
- 12.7 Hazard to the ozone layer

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**13.1.1 Product / Packaging disposal:** Not determined or not available.

Waste codes / waste designations according to LoW: Not determined or not available.

- **13.1.2** Waste treatment-relevant information: Not determined or not available.
- 13.1.3 Sewage disposal-relevant information: Not determined or not available.
- **13.1.4 Other disposal recommendations:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number UN 3082
-------------------

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# **Elastic Resin**

UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer	
UN transport hazard class(es)	9	
Packing group	III	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	
Additional Information	This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8	

# International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	UN 3082	
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer	
UN transport hazard class(es)	9	
Packing group	III	
Environmental hazards Marine Pollutant		
Special precautions for user None		
Additional Information	This product is not regulated as a dangerous good when transported in sizes of $<5L$ or $<5$ kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8	

#### International Maritime Dangerous Goods (IMDG)

UN number	UN 3082	
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer	
UN transport hazard class(es)	9	
Packing group	III	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	
Additional Information	This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8	

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	III

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Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5L or 5 $\leq$ kg provided the packaging meet the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

Transport in bulk according to Annex II of MARPOL and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

# SECTION 15: Regulatory information

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

# Inventory listing (EINECS):

	5888-33-5	Isobornyl acrylate	Listed
	Trade Secret	Acrylate Monomer(s)	Listed
-			

#### REACH SVHC candidate list:

5888-33-5	Isobornyl acrylate	Not Listed
Trade Secret	Acrylate Monomer(s)	Not Listed

# **REACH SVHC Authorizations:**

5888-33-5	Isobornyl acrylate	Not Listed
Trade Secret	Acrylate Monomer(s)	Not Listed

## **REACH Restriction:**

5888-33-5		Isobornyl acrylate	Not Listed
Trade Secr	et	Acrylate Monomer(s)	Not Listed

# Water hazard class (WGK) (Product):

# Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Isobornyl acrylate	5888-33-5	Water hazard class 2: obviously hazardous to water
Acrylate Monomer(s)	Trade Secret	Water hazard class 1: slightly hazardous to water

# Other regulations

# Germany TA Luft:

Ingredient Name	CAS	Class	Base Emission Rate	Max Concentration
Isobornyl acrylate	5888-33-5	Not Applicable		
Acrylate Monomer(s)	Trade Secret	Not Applicable		

# 15.2 Chemical Safety Assessment

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

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No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### SECTION 16: Other information

Abbreviations and Acronyms: None

Classification procedure:	
Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Skin irritation, category 2	Calculation method
Serious eye damage, category 1	Calculation method
Skin sensitization, category 1	Calculation method
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation	Calculation method
Chronic aquatic hazard, category 1	Bridging principle substantially similar mixtures

#### Summary of classification(s) in section 3:

Skin Irrit. 2	Skin irritation, category 2
Eye Irrit. 2	Eye Irritation, category 2
STOT SE 3 (RI)	Specific target organ toxicity - single exposure, category 3, respiratory tract irritation
Aquatic Chronic 2	Chronic aquatic hazard, category 2
Skin Sens. 1	Skin sensitization, category 1
Eye Dam. 1	Serious eye damage, category 1

#### Summary of hazard statements in section 3:

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

#### **Disclaimer:**

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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#### End of Safety Data Sheet