		SAFETY	DATA SHEET	<b>ALS</b> TermoPasty	
		according to Regulation (EC)	No 1907/2006 (REACH) as		
	Ca	talyst (for silicone	e filling 011,019,0	)21,029)	
Creati	on date	18. October 2012			
Revisi	on date	16. February 2018	Version	1.03	
SECT	ION 1: Identification	of the substance/mixture			
1.1.	Product identifier			e filling 011,019,021,029)	
	Substance / mixture		mixture		
1.2.	Relevant identified mixture's intended us	uses of the substance or r se	mixture and uses advised Catalyst.	against	
	Disapproved uses of	mixture	The product should referred in Section	not be used in ways other then those 1.	
1.3.	Details of the supp Supplier	lier of the safety data shee	et		
	Name or trade name		AG TermoPasty Grzegorz Gąsowski		
	Address		Kolejowa 33 E, Soko	oły, 18-218	
			Poland		
	Identification n	umber (ID)	200133730		
	VAT Reg No		9661767714		
	Phone		862741342		
	E-mail		biuro@termopasty.pl		
	Web address		www.termopasty.pl		
	<b>Competent person</b>	responsible for the safety	data sheet		
	Name		AG TermoPasty Grz	egorz Gąsowski	
	E-mail		biuro@termopasty.	pl	
1.4.	Emergency telepho				
	National Health Servi	ce (NHS) 111 formation centre Scotland, NH	HS 24: 111		

Flam. Liq. 3, H226 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT SE 2, H371

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse physico-chemical effects

Flammable liquid and vapour.

#### Most serious adverse effects on human health and the environment

Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs.

#### 2.2. Label elements

Hazard pictogram



Signal word Warning

#### Hazardous substances

ethyl silicate Dilaurynian dioktylocyny **Hazard statements** H226 Flammable liquid and vapour.



according to Regulation (EC) No 1907/2006 (REACH) as amended

## Catalyst (for silicone filling 011,019,021,029)

		·	,,,
Creation date	18. October 2012		
Revision date	16. February 2018	Version	1.03
H319	Causes serious eye irritatior	1.	
H332	Harmful if inhaled.		
H335	May cause respiratory irritat	ion.	
H371	May cause damage to organ	s.	
Precautionary	statements		
P210	Keep away from heat, hot si smoking.	urfaces, sparks, open flam	es and other ignition sources. No
P260	Do not breathe vapours.		
P280	Wear eye protection.		
P312	Call a POISON CENTER if yo	u feel unwell.	
P337+P313	If eye irritation persists: Ge	t medical advice/attention	
P370+P378	In case of fire: Use powder	extinguisher/sand/carbon	dioxide to extinguish.

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

# Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 014-005-00-0 CAS: 78-10-4 EC: 201-083-8	ethyl silicate	>25	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	
CAS: 3648-18-8 EC: 222-883-3 Registration number: 0I-2119979527-19- XXXX	Dilaurynian dioktylocyny	15	STOT SE 2, H371	

Full text of all classifications and hazard statements is given in the section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

#### Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### Ingestion

Provide medical treatment.



according to Regulation (EC) No 1907/2006 (REACH) as amended

## Catalyst (for silicone filling 011,019,021,029)

18. October 2012

16. February 2018

Version

1.03

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

#### Inhalation

Creation date

Revision date

Cough, headache. May cause respiratory irritation. **Skin contact** Not expected. **Eye contact** Causes serious eye irritation. **Ingestion** 

Irritation, nausea.

**4.3.** Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

#### Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.



according to Regulation (EC) No 1907/2006 (REACH) as amended

### Catalyst (for silicone filling 011,019,021,029)

Creation date Revision date 18. October 2012 16. February 2018

Version

1.03

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

#### 7.3. Specific end use(s)

Store in tightly closed containers in a cool, dry place intended for this purpose.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### Time of Substance name (component) Value Note Source Type exposure The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected WEL 8 hours 87 ma/m<sup>3</sup> because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list. ethyl silicate (CAS: 78-10-4) Gestis The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected WEL Short-term 260 mg/m<sup>3</sup> because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.

#### United Kingdom of Great Britain and Northern Ireland



according to Regulation (EC) No 1907/2006 (REACH) as amended

### Catalyst (for silicone filling 011,019,021,029)

Creation date Revision date 18. October 2012 16. February 2018

Version

1.03

#### United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Туре	Time of exposure	Value	Note	Source
sthul silicate (CAC) 70, 10, 4)	WEL	8 hours	10 ppm	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.	Castia
ethyl silicate (CAS: 78-10-4)	WEL	Short-term	30 ppm	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.	Gestis

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly.

#### **Respiratory protection**

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

#### 9.1. Information on basic physical and chemical properties

Appearance	liquid
Physical state	liquid at 20°C
color	yellow
Odour	characteristic
Odour threshold	data not available
рН	6 (undiluted)
Melting point/freezing point	data not available
Initial boiling point and boiling range	90 °C



according to Regulation (EC) No 1907/2006 (REACH) as amended

## Catalyst (for silicone filling 011,019,021,029)

Creation date	18. October 2012			
Revision date	16. February 2018	Version	1.03	
Flash j	point	63 °C		
Evapo	ration rate	data not available		
Flamm	nability (solid, gas)	data not available		
Upper,	lower flammability or explosive limits			
fla	mmability limits	data not available		
ex	plosive limits	data not available		
Vapou	r pressure	2 hPa at 20 °C		
Vapou	r density	data not available		
Relativ	ve density	data not available		
Solubi	lity(ies)			
sol	lubility in water	insoluble		
sol	lubility in fats	data not available		
Partitio	on coefficient: n-octanol/water	data not available		
Auto-i	gnition temperature	data not available		
Decom	nposition temperature	data not available		
Viscos	ity	0.53 cP		
Explos	sive properties	Vapours mixed up	with air can be explosive.	
Oxidis	ing properties	data not available		
9.2. Other	<sup>·</sup> information			
Densit	Σ <b>γ</b>	0.939 g/cm <sup>3</sup>		
ignitio	n temperature	data not available		

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity

- not available
- 10.2. Chemical stability

The product is stable under normal conditions.

**10.3.** Possibility of hazardous reactions Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

Harmful if inhaled. May cause damage to organs.

ethyl silicate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	6.270 mg/kg		Rat	
Dermal	LD50	5.85 mg/kg		Rabbit	
Inhalation (vapor)	LC50	5.03 mg/l	4 hour	Rat (Rattus norvegicus)	
Inhalation (vapor)	LC50	1000 ppm	4 hour	Rat (Rattus norvegicus)	



according to Regulation (EC) No 1907/2006 (REACH) as amended

### Catalyst (for silicone filling 011,019,021,029)

Creation date Revision date 18. October 2012 16. February 2018

Version

1.03

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### **Reproductive toxicity**

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

May cause respiratory irritation. May cause damage to organs.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### Acute toxicity

Data for the mixture are not available.

ethyl silicate

Parameter	Value	Time of exposure	Species	Environment
EC₅o	>844 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50	>2 mg/l	5 hour	Bacteria (Pseudomonas putida)	

### 12.2. Persistence and degradability

- Not available.
- **12.3.** Bioaccumulative potential Not available.

12.4. Mobility in soil

Not available.

#### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

# **12.6.** Other adverse effects Not available.

#### SECTION 13: Disposal considerations

Page 7/10



according to Regulation (EC) No 1907/2006 (REACH) as amended

### Catalyst (for silicone filling 011,019,021,029)

Creation date Revision date

Version

1.03

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14: Transport information**

#### 14.1. UN number

- Not subject to ADR.
- **14.2.** UN proper shipping name not available
- 14.3. Transport hazard class(es) not available
- 14.4. Packing group not available
- 14.5. Environmental hazards
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- **14.7.** Transport in bulk according to Annex II of Marpol and the IBC Code not available

18. October 2012

16. February 2018

#### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

#### 15.2. Chemical safety assessment

not available

SECTION 16: Other	r information
A list of sta	ndard risk phrases used in the safety data sheet
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
Guidelines f	for safe handling used in the safety data sheet
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear eye protection.



according to Regulation (EC) No 1907/2006 (REACH) as amended

	Catalyst (for silicone filling 011,019,021,029)
Creation date	18. October 2012
Revision date P312	16. February 2018 Version 1.03
	Call a POISON CENTER if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
-	t information about human health protection
as per the Section	not be - unless specifically approved by the manufacturer/importer - used for purposes other tha 1. The user is responsible for adherence to all related health protection regulations.
_	tions and acronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid



according to Regulation (EC) No 1907/2006 (REACH) as amended

### Catalyst (for silicone filling 011,019,021,029)

Creation date Revision date 18. October 2012 16. February 2018

Version

1.03

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.