SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

EASY PRINT Sn62Pb36Ag2

Creation date	30th September 2022		
Revision date	14th January 2025	Version	8.0

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

1.1. Product identifier — EASY PRINT Sn62Pb36Ag2

Substance / mixture: mixture

UFI: 0E20-409C-H00X-C6K3

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

Mixture's intended use

Soldering paste

Main intended use

PC-TEC-24 Welding, soldering, and flux products

Mixture uses advised against

The product should not be used in ways other then those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	AG TermoPasty Grzegorz Gąsowski
Address	Kolejowa 33 E, Sokoły, 18-218 Poland
Identification number (CRN)	200133730
VAT Reg No	PL9661767714
Phone	+48 86 274 13 42
E-mail	msds@termopasty.pl
Web address	www.termopasty.com

Competent person responsible for the safety data sheet

Name	AG TermoPasty Grzegorz Gąsowski
E-mail	msds@termopasty.pl

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Sens. 1, H317
Repr. 1A, H360FD
Lact., H362
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Most serious adverse effects on human health and the environment

May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause harm to breast-fed children. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

lead powder
COLOPHONIUM
1,2-bis(2-methoxyethoxy) ethane

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Hazard statements

H317	May cause an allergic skin reaction.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. 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. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

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: 082-013-00-1 CAS: 7439-92-1 EC: 231-100-4 Registration number: 01-2119513221-59-XXXX	lead powder	30-50	Repr. 1A, H360FD Lact., H362 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Specific concentration limit: Repr. 1A, H360D: C ≥ 0.03 %	2, 3, 4
Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32-XXXX	COLOPHONIUM	5-10	Skin Sens. 1, H317	1
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	≤3	Eye Irrit. 2, H319	1, 4
Index: 603-176-00-2 CAS: 112-49-2 EC: 203-977-3 Registration number: 01-2119486479-18	1,2-bis(2-methoxyethoxy) ethane	≤1	Eye Irrit. 2, H319 Repr. 1B, H360Df EUH019	3, 4
CAS: 7440-31-5 EC: 231-141-8 Registration number: 01-2119486474-28-0033	tin		not classified as dangerous	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 047-004-00-9 CAS: 7440-22-4 EC: 231-131-3 Registration number: 01-2119555669-21-0025	silver		Repr. 2, H361f STOT RE 2, H373 (nervous system)	1

Notes

1 *A substance for which exposure limits are set.*
2 *Substance for which biological limit values exist.*
3 *Substance of very high concern - SVHC.*
4 *The use of the substance is restricted by Annex XVII of REACH Regulation*

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.

If inhaled

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.

If on skin

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.

If in eyes

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.

If swallowed

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

If inhaled

Cough, headache.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

If swallowed

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.

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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. 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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale dust. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy and while nursing. Do not eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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. Store locked up.

Content	Packaging type	Material of package
1,4 ml	syringe	PP
20 g	syringe	PP
40 g	syringe	PP
250 g	box	PP
500 g	box	PP

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

European Union — **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
silver (CAS: 7440−22−4)	OEL 8 hours	0,1 mg/m³

European Union — **Commission Directive 2006/15/EC**

Substance name (component)	Type	Value
2−(2−butoxyethoxy)ethanol (CAS: 112−34−5)	OEL 8 hours	67,5 mg/m³
	OEL 8 hours	10 ppm
	OEL 15 minutes	101,2 mg/m³

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European Union **Commission Directive 2006/15/EC**

Substance name (component)	Type	Value
2−(2−butoxyethoxy)ethanol (CAS: 112−34−5)	OEL 15 minutes	15 ppm

United Kingdom **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

Substance name (component)	Type	Value
2−(2−butoxyethoxy)ethanol (CAS: 112−34−5)	WEL 8h	67,5 mg/m³
	WEL 8h	10 ppm
	WEL 15min	101,2 mg/m³
	WEL 15min	15 ppm

United Kingdom **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

Substance name (component)	Type	Value
Silver, metallic (CAS: 7440−22−4)	WEL 8h	0,1 mg/m³

Notes
As Ag.

United Kingdom **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

Substance name (component)	Type	Value
COLOPHONIUM (CAS: 8050−09−7)	WEL 8h	0,05 mg/m³
	WEL 15min	0,15 mg/m³

Notes
Capable of causing occupational asthma.

Biological limit values

European Union **SCOEL**

Name	Parameter	Value	Tested material
Lead and its ionic compounds (CAS: 7439−92−1)	Lead	30 µg Pb/100ml	Blood

DNEL

1,2-bis(2-methoxyethoxy) ethane			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	6.25 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	80.4 mg/m³	Chronic effects systemic

2-(2-butoxyethoxy)ethanol			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	101.2 mg/m³	Acute effects local
Workers	Inhalation	67.5 mg/m³	Chronic effects local

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COLOPHONIUM			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	25 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	176.32 mg/m³	Chronic effects systemic
Consumers	Oral	15 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	15 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	52.174 mg/m³	Chronic effects systemic

silver			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	0.1 mg/m³	Chronic effects systemic
Consumers	Inhalation	0.04 mg/m³	Chronic effects systemic
Consumers	Oral	1.2 mg/kg bw/day	Chronic effects systemic

tin			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	133.3 mg/kg bw/day	Acute effects systemic
Workers	Dermal	133.3 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	11.75 mg/m³	Acute effects systemic
Workers	Inhalation	11.75 mg/m³	Chronic effects systemic
Consumers	Oral	80 mg/kg bw/day	Acute effects systemic
Consumers	Oral	80 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	80 mg/kg bw/day	Acute effects systemic
Consumers	Dermal	80 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	3.476 mg/m³	Acute effects systemic
Consumers	Inhalation	3.476 mg/m³	Chronic effects systemic

PNEC

1,2-bis(2-methoxyethoxy) ethane	
Route of exposure	Value
Drinking water	6.4 mg/l
Freshwater sediment	26.6 mg/kg of dry substance of sediment
Marine water	0.64 mg/l
Sea sediments	2.66 mg/kg of dry substance of sediment
Water (intermittent release)	50 mg/l
Microorganisms in sewage treatment	50 mg/l
Soil (agricultural)	1.57 mg/kg

2-(2-butoxyethoxy)ethanol	
Route of exposure	Value
Drinking water	1.1 mg/l
Freshwater sediment	4.4 mg/kg
Sea sediments	0.44 mg/kg
Soil (agricultural)	0.32 mg/kg
Marine water	0.11 mg/l

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COLOPHONIUM	
Route of exposure	Value
Drinking water	0.005 mg/l
Marine water	0.0005 mg/l
Freshwater sediment	108 mg/kg of dry substance
Sea sediments	10.8 mg/kg of dry substance
Soil (agricultural)	21.4 mg/kg of dry substance
Microorganisms in sewage treatment	1000 mg/l

silver	
Route of exposure	Value
Soil (agricultural)	0.794 mg/kg
Drinking water	0.04 µg/l
Marine water	0.86 µg/l
Freshwater sediment	438.13 mg/kg
Sea sediments	438.13 mg/kg
Microorganisms in sewage treatment	25 µg/l

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. 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

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

not available

Thermal hazard

Data not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	grey
Odour	characteristic
Melting point/freezing point	179 °C
Boiling point or initial boiling point and boiling range	260 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	

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	Density	1.2 g/cm³
	Relative vapour density	data not available
	Particle characteristics	data not available
	Form	paste
9.2.	**Other information**	
	Evaporation rate	non-applicable
	Ignition temperature	141 °C

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 hazard classes as defined in Regulation (EC) No 1272/2008
No toxicological data is available for the mixture.

Acute toxicity
Based on available data the classification criteria are not met.

1,2-bis(2-methoxyethoxy) ethane						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	5390 mg/kg		Rat		
Skin	LD_{50}	>6900 mg/kg		Rat		

2-(2-butoxyethoxy)ethanol						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	1.410 mg/kg		Mouse		ECHA
Dermal	LD_{50}	2.764 mg/kg		Rabbit		ECHA

COLOPHONIUM						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	2800 mg/kg		Rat		
Oral	LD_{50}	>1000		Guinea-pig		
Dermal	LD_{50}	>2000 mg/kg		Rat		

silver						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	2000≤5000 mg/kg		Rat		
Dermal	LD_{50}	2000≤5000 mg/kg		Rat		
Inhalation	LC_{50}	5.16 mg/l	4 hours	Rat		

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tin						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	2000-≤5000 mg/kg		Rat		
Dermal	LD_{50}	2000-≤5000 mg/kg		Rat		
Inhalation	LC_{50}	>4.75 mg/l	4 hours	Rat (Rattus norvegicus)		

Skin corrosion/irritation
Based on available data the classification criteria are not met.

Serious eye damage/irritation
Based on available data the classification criteria are not met.

Respiratory or skin sensitisation
May cause an allergic skin reaction.

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
May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

Toxicity for specific target organ - single exposure
Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

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.

11.2. Information on other hazards

Endocrine disrupting properties
Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information
not available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Acute toxicity

1,2-bis(2-methoxyethoxy) ethane						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC_{50}	OECD 203	>5000 mg/l	96 hours	Fish (Zebra fish)	Fresh water	
EC_{50}	OECD 202	>5000 mg/l	48 hours	Daphnia		

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1,2-bis(2-methoxyethoxy) ethane						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC_{50}	OECD 201	>6000 mg/l	72 hours	Algae		

2-(2-butoxyethoxy)ethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC_{50}		>100 mg/l	48 hours	Aquatic invertebrates		
LC_{50}		1.300 mg/l	96 hours	Fish		
ErC_{50}		>100 mg/l	96 hours	Algae		

COLOPHONIUM						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LL_{100}	OECD 203	≤10 mg/l	24 hours	Fish (Branchydanio rerio)		anon,
NOELR	OECD 203	≤1 mg/l	96 hours	Fish (Branchydanio rerio)		anon.
LD_{50}	OECD 203	60.3 mg/l	96 hours	Fish (Branchydanio rerio)		Schreerbaum D
NOELR	OECD 203	≥1000 mg/l	96 hours	Fish (Pimephales promelas)		Kelly, C.R., Clayton, M.A.
LL_{50}	OECD 203	>1000 mg/l	96 hours	Fish (Pimephales promelas)		Kelly, C.R., Clayton, M.A.
EL_{50}	OECD 202	911 mg/l	48 hours	Daphnia (Daphnia magna)		Kelly, C.R., Clayton, M.A.
NOELR	OECD 202	75 mg/l	48 hours	Daphnia (Daphnia magna)		Kelly, C.R., Clayton, M.A.
NOELR	OECD 202	10	48 hours	Daphnia (Daphnia magna)		anon.
EL_{100}	OECD 202	≤100 mg/l	48 hours	Daphnia (Daphnia magna)		anon.
NOELR	OECD 201	≥1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Kelly, C.R., Clayton, M.A.
EL_{50}	OECD 201	.1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Kelly, C.R., Clayton, M.A.

silver						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		0.13 mg/l	28 days	Fish (Menidia beryllina)		
NOEC		0.001 mg/l	7 days	Crustaceans		

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silver						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		0.0012 mg/l	14 days	Algae (Selenastrum capricornutum)		

tin						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC_{50}		1.303 mg/l		Invertebrates (Ceriodaphnia dubia)		

12.2. Persistence and degradability

Data not available.

Biodegradability

COLOPHONIUM				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

lead powder				
Parameter	Value	Exposure time	Environment	Result
				Hardly biodegradable

12.3. Bioaccumulative potential

Data not available.

1,2-bis(2-methoxyethoxy) ethane					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	-0.48				

COLOPHONIUM					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	56.23 ml/kg				

silver					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	70				

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Data not available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	**90**
UN number	**3077**
Classification code	M7
Safety signs	9+hazardous for the environment



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Road transport - ADR	
Special provisions	274, 335, 601
Limited quantities	5 kg
Excepted quantities	E1
Packaging	
Packing instructions	P002, IBC08, LP02, R001
Special packing provisions	PP12, B3
Mixed packing provisions	MP10
Portable tanks and bulk containers	
Guidelines	T1, BK1, BK2, BK3
Special provisions	TP33
ADR tank	
Tank code	SGAV, LGBV
Vehicles for tank carriage	AT
Transport category	3
Tunnel restriction code	(-)
Special provision for	
packages	V13
bulk	VC1
loading, unloading and handling	CV13
Railway transport - RID	
Special provisions	274, 335, 601
Excepted quantities	E1
Packaging	
Packing instructions	P002, IBC08, LP02, R001
Special packing provisions	PP12, B3
Mixed packing provisions	MP10
Portable tanks and bulk containers	
Guidelines	T1, BK1, BK2, BK3
Special provisions	TP33
RID Tanks	
Tank code	SGAV, LGBV
Transport category	0
Special provision for	
packages	W13
bulk	VW1
loading, unloading and handling	CW13
Air transport - ICAO/IATA	
Packaging instructions for limited amount	Y956
Packaging instructions passenger	956
Cargo packaging instructions	956
Marine transport - IMDG	
EmS (emergency plan)	F-A, S-F

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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: "Do not use in paint spraying equipment".

lead powder

Restriction	Conditions of restriction
63	1. Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight. 2. For the purposes of paragraph 1: (i) "jewellery articles" shall include jewellery and imitation jewellery articles and hair accessories, including: (a) bracelets, necklaces and rings; (b) piercing jewellery; (c) wrist watches and wrist-wear; (d) brooches and cufflinks; (ii) "any individual part" shall include the materials from which the jewellery is made, as well as the individual components of the jewellery articles. 3. Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making. 4. By way of derogation, paragraph 1 shall not apply to: (a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (*); (b) internal components of watch timepieces inaccessible to consumers; (c) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances; (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a temperature of at least 500 °C. 5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles produced before 10 December 1961. 6. By 9 October 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly. 7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead (expressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in the mouth by children. That limit shall not apply where it can be demonstrated that the rate of lead release from such an

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lead powder

Restriction	Conditions of restriction
	article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm² per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article. For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size. 8. By way of derogation, paragraph 7 shall not apply to: (a) jewellery articles covered by paragraph 1; (b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC; (c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substances; (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted at a temperature of at least 500 °C; (e) keys and locks, including padlocks; (f) musical instruments; (g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the brass alloy does not exceed 0,5 % by weight; (h) the tips of writing instruments; (i) religious articles; (j) portable zinc-carbon batteries and button cell batteries; (k) articles within the scope of: (i) Directive 94/62/EC; (ii) Regulation (EC) No 1935/2004; (iii) Directive 2009/48/EC of the European Parliament and of the Council (*); (iv) Directive 2011/65/EU of the European Parliament and of the Council (**) 9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly. 10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 June 2016. 11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: (a)discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight; (b)carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting. For the purposes of the first subparagraph: (a)"within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetland; (b)"wetland shooting" means shooting in or within 100 metres of wetlands; (c)if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate that it was some other type of shooting. The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifies the Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragraph. 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that Member State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the following acts throughout the whole of its territory from 15 February

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lead powder

Restriction	Conditions of restriction
	2024: (a)the placing on the market of gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight; (b)the discharging of any such gunshot; (c)carrying any such gunshot while out shooting or as part of going shooting. Any Member State intending to make use of the option granted by the first subparagraph shall notify the Commission of this intention by 15 August 2021. The Member State shall communicate the text of the national measures adopted by it to the Commission without delay and in any event by 15 August 2023. The Commission shall make publicly available without delay any such notices of intention and texts of national measures received by it. 13. For the purposes of paragraphs 11 and 12: (a)"wetlands" means areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed 6 metres; (b)"gunshot" means pellets used or intended for use in a single charge or cartridge in a shotgun; (c)"shotgun" means a smooth-bore gun, excluding airguns; (d)"shooting" means any shooting with a shotgun; (e)"carrying" means any carrying on the person or carrying or transporting by any other means; (f)in determining whether a person found with gunshot is carrying gunshot "as part of going shooting": (i)regard shall be had to all the circumstances of the case; (ii)the person found with the gunshot need not necessarily be the same person as the person shooting. 14. Member States may maintain national provisions for protection of the environment or human health in force on 15 February 2021 and restricting lead in gunshot more severely than provided for in paragraph 11. The Member State shall communicate the text of those national provisions to the Commission without delay. The Commission shall make publicly available without delay any such texts of national provisions received by it. 15. Shall not be placed on the market or used in articles produced from polymers or copolymers of vinyl chloride ('PVC'), if the concentration of lead is equal to or greater than 0,1 % by weight of the PVC material. 16. Paragraph 15 shall apply with effect from 29 November 2024. 17. By way of derogation, paragraph 15 shall not apply to PVC articles containing recovered flexible PVC until 28 May 2025. 18. By way of derogation, paragraph 15 shall not apply to the following PVC articles containing recovered rigid PVC until 28 May 2033, if the concentration of lead is lower than 1,5 % by weight of the recovered rigid PVC: (a) profiles and sheets for exterior applications in buildings and civil engineering works, excluding decks and terraces; (b) profiles and sheets for decks and terraces, provided that the recovered PVC is used in a middle layer and is entirely covered with a layer of PVC or other material for which the concentration of lead is lower than 0,1 % by weight; (c) profiles and sheets for use in concealed spaces or voids in buildings and civil engineering works (where they are inaccessible during normal use, excluding maintenance, for example, cable ducts); (d) profiles and sheets for interior building applications, provided that the entire surface of the profile or sheet facing the occupied areas of a building after installation is produced using PVC or other material for which the concentration of lead is lower than 0,1 % by weight; (e) multi-layer pipes (excluding pipes for drinking water), provided that the recovered PVC is used in a middle layer and is entirely covered with a layer of PVC or other material for which the concentration of lead is lower than 0,1 % by weight; (f) fittings, excluding fittings for pipes for drinking water.

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lead powder

Restriction	Conditions of restriction
	From 28 May 2026, rigid PVC recovered from the categories of articles referred to in points (a) to (d) shall only be used for the production of new articles of any of those categories. Suppliers of PVC articles containing recovered rigid PVC with a concentration of lead equal to or greater than 0,1 % by weight of the PVC material shall ensure, before placing those articles on the market, that they are visibly, legibly and indelibly marked with the statement: "Contains ≥ 0,1 % lead". Where the marking cannot be provided on the article due to the nature of the article, it shall be on the packaging of the article. Suppliers of PVC articles containing recovered rigid PVC shall submit to national enforcement authorities upon request documentary evidence to substantiate the claims on the recovered origin of the PVC in those articles. Certificates issued by schemes to provide proof of traceability and recycled content, such as those developed according to EN 15343:2007 or equivalent recognised standards, may be used to substantiate such claims for PVC articles produced in the Union. Claims made on the recovered origin of the PVC in imported articles shall be accompanied by a certificate that provides equivalent proof of traceability and recycled content, issued by an independent third party. By 28 May 2028, the Commission shall review this paragraph in light of new scientific information and, if appropriate, modify it accordingly. 19. By way of derogation, paragraph 15 shall not apply to: (a) PVC-silica separators in lead acid batteries, until 28 May 2033; (b) articles covered by paragraph 1, in accordance with paragraphs 2 to 5, and by paragraph 7 in accordance with paragraphs 8 and 10; (c) articles within the scope of: (i) Regulation (EC) No 1935/2004; (ii) Directive 2011/65/EU; (iii) Directive 94/62/EC; (iv) Directive 2009/48/EC. 20. By way of derogation, paragraph 15 shall not apply to PVC articles placed on the market until 28 November 2024.

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lead powder

Restriction	Conditions of restriction
72	1. Shall not be placed on the market after 1 November 2020 in any of the following: (a) clothing or related accessories; (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing; (c) footwear; if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater than that specified for that substance in Appendix 12. 2. By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter. 3. Paragraph 1 shall not apply to: (a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide; (b) non-textile fasteners and non-textile decorative attachments; (c) second-hand clothing, related accessories, textiles other than clothing or footwear (d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners. 4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or Regulation (EU) 2017/745 of the European Parliament and of the Council (**). 5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose. 6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation. 7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly. (*) Regulation (EU) 2016/425 of the European Parliament and of the Council of of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51). (**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).

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lead powder, 1,2-bis(2-methoxyethoxy) ethane

Restriction	Conditions of restriction
30	1. Shall not be placed on the market, or used, — as substances, — as constituents of other substances, or, — in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, — the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH019	May form explosive peroxides.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H362	May cause harm to breast-fed children.
H373	May cause damage to the nervous system through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

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Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL_{100}	Effective Loading for 100 % of the tested organisms
EL_{50}	Effective Loading for 50 % of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
Lact.	Lactation
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
LL_{100}	Lethal Loading for 100 % of tested organisms
LL_{50}	Lethal Loading for 50 % of tested organisms
log Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Agreement on the transport of dangerous goods by rail
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
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
vPvM	Very persistent and very mobile

Training guidelines

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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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 8.0 replaces the SDS version from Thursday, 8 February 2024. Changes were made in sections 2, 11, 12, 13 and 16.

More information

Classification procedure - calculation method.

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.

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