

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Art. 48321 metallic lacquer silver
Revision date : 21.02.2024
Print date : 21.02.2024

Version (Revision) : 13.0.3 (13.0.2)

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

1.1 Product identifier

Art. 48321 metallic lacquer silver
(12345077)

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

Relevant identified uses

Candle lacquer for surface decoration of candles.

Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Products Category [PC]

PC 9a - Coatings and paints, thinners, paint removers

1.3 Details of the supplier of the safety data sheet

Supplier

Exagon AG

Street : Räfäfelstrasse 10

Postal code/City : CH- 8045 Zürich

Telephone : 0041 44 430 36 76

Telefax : 0041 44 430 36 66

Information contact : info@exagon.ch

1.4 Emergency telephone number: 145 (Tox Info Suisse)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

None

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH208 Contains REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

2-BUTOXYETHANOL ; REACH No. : 01-2119475108-36-0000 ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 1 - < 2,5 \%$

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Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319
Specific Conc. Limits : (ATE - oral : 1200 mg/kg) • (ATE - inhalative (vapour) : 3 mg/L)

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; REACH
No. : 01-2120764691-48-0000 ; CAS No. : 55965-84-9

Weight fraction : $\geq 0,00015$ - $< 0,0015$ %

Classification 1272/2008 [CLP] : Acute Tox. 2 ; H310 Acute Tox. 2 ; H330 Acute Tox. 3 ; H301 Skin Corr. 1C ; H314
Eye Dam. 1 ; H318 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1
; H410 EUH071

Specific Conc. Limits : Eye Dam. 1 ; H318: C $\geq 0,6$ % • Skin Corr. 1C ; H314: C $\geq 0,6$ % • Eye Irrit. 2 ;
H319: C $\geq 0,06$ % • Skin Irrit. 2 ; H315: C $\geq 0,06$ % • Skin Sens. 1A ; H317: C \geq
0,0015 % • (M=100)

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Call a physician immediately. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Nausea , Headache

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam , Extinguishing powder , Carbon dioxide (CO₂) , Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

No information available.

Hazardous combustion products

Nitrogen oxides (NO_x) , Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

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Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove all sources of ignition. Provide adequate ventilation. Remove victim out of the danger area. Use personal protection equipment.

For emergency responders

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4 Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Use extractor hood (laboratory). All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists generation/formation of aerosols Skin contact Eye contact

Measures to prevent fire

No special fire protection measures are necessary.

Advices on general occupational hygiene

Use protective skin cream before handling the product. Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary.

7.2 Conditions for safe storage, including any incompatibilities

Store in a place accessible by authorized persons only. Floors should be impervious, resistant to liquids and easy to clean. Keep container tightly closed. Ensure adequate ventilation of the storage area. Keep/Store only in original container.

Hints on joint storage

Storage class (TRGS 510) : 12

Keep away from

Heat. Oxidizing agent , Strong acid , Strong alkali , Frost

7.3 Specific end use(s)

Candle lacquer for surface decoration of candles.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 10 ppm / 49 mg/m³
Peak limitation : 2(II)
Remark : H,Y
Version : 23.06.2022

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 246 mg/m³
Remark : Skin
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 98 mg/m³
Remark : Skin
Version : 20.06.2019

Biological limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxyacetic acid (after hydrolysis) / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts
Limit value : 150 mg/g Creatinine
Version : 25.02.2022

DNEL-/PNEC-values

DNEL/DMEL

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 123 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 38 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 3,2 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 49 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 75 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term

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Limit value : 98 mg/m³

8.2 Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. See section 7. No additional measures necessary.

Personal protection equipment



Eye/face protection

Eye glasses with side protection

Required properties

liquid-tight.

Skin protection

Hand protection

NR (natural rubber, Natural latex) , Butyl caoutchouc (butyl rubber) . For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Recommended glove articles : EN ISO 374

Body protection

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : silver

Odour : characteristic

Safety characteristics

Physical state :

Liquid

Melting point :

approx. -2 °C

Freezing point :

approx. -2 °C

Initial boiling point and boiling range :

approx. 100 °C

Initial boiling point and boiling range : (1013 hPa)

approx. 100 °C

Decomposition temperature :

not determined

Flash point :

not applicable

Brookfield

Auto-ignition temperature :

not determined

Lower explosion limit :

not applicable

Upper explosion limit :

not applicable

Vapour pressure : (50 °C)

< 100 hPa

Density : (20 °C)

1,1 g/cm³

Relative density : (20 °C)

not determined

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Solvent separation test :	(20 °C)		not determined	
Water solubility :	(20 °C)		100	Weight-%
pH :			not determined	
log P O/W :			not determined	
Flow time :	(20 °C)	approx.	13 - 15	s DIN-cup 4 mm
Odour threshold :			not determined	
Relative vapour density :	(20 °C)		not determined	
Vapourisation rate :		approx.	80	(Ether = 1)
Flammable solids :	Not relevant.			
Flammable gases :	Non-flammable.			
Oxidising liquids :	Not relevant.			
Explosive properties :	Not explosive according to EU A.14.			
Corrosive to metals :	May be corrosive to metals.			

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

not useable after freezing.

10.5 Incompatible materials

Keep away from: Alkali metals , Hydrogen peroxide , Oxidizing agent.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	1746 mg/kg
Method :	OECD 401

Acute inhalation toxicity

Parameter :	LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	500 ppm
Parameter :	LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Species :	Mouse

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Effective dose : 700 ppm

Corrosion

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Rabbit
Result : Irritant

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Rabbit
Result : Strongly irritant

Respiratory or skin sensitisation

Skin sensitisation

Parameter : Skin sensitisation (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Guinea pig
Result : Not sensitising.
Method : OECD 406

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 1474 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : EC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 1800 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 911 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) fish toxicity

Parameter : NOEC (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Danio rerio (zebrafish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 504 h
Method : OECD 204

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (2-BUTOXYETHANOL ; CAS No. : 111-76-2)

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Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 100 mg/l
Exposure time : 504 h
Method : OECD 211

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : Acute (short-term) algae toxicity (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 679 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 286 mg/l
Exposure time : 72 h
Method : OECD 201

Toxicity to microorganisms

Parameter : EC0 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : 700 mg/l
Exposure time : 16 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 90,4 %
Test duration : 672 h
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B

12.3 Bioaccumulative potential

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

No information available.

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 40, 75

National regulations

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

16.1 Indication of changes

15. Water hazard class

16.2 Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC)

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No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
