

# Safety Data Sheet

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



**Trade name :** Art. 48320 metallic lacquer gold  
**Revision date :** 21.02.2024  
**Print date :** 21.02.2024

**Version (Revision) :** 11.0.4 (11.0.3)

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

### 1.1 Product identifier

Art. 48320 metallic lacquer gold  
(12345259)

### 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 :** Räfäelstrasse 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 (CO<sub>2</sub>) , 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<sub>x</sub>) , 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/m<sup>3</sup>

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/m<sup>3</sup>

Remark : Skin

Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )

Limit value : 20 ppm / 98 mg/m<sup>3</sup>

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/m<sup>3</sup>

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/m<sup>3</sup>

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/m<sup>3</sup>

## 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 :** golden

**Odour :** characteristic

#### Safety characteristics

<b>Physical state :</b>			Liquid	
<b>Melting point :</b>		approx.	-2 °C	
<b>Freezing point :</b>		approx.	-2 °C	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	approx.	100 °C	
<b>Decomposition temperature :</b>			not determined	
<b>Flash point :</b>			not applicable	Brookfield
<b>Auto-ignition temperature :</b>			not determined	
<b>Lower explosion limit :</b>			not applicable	
<b>Upper explosion limit :</b>			not applicable	
<b>Vapour pressure :</b>	( 50 °C )	<	100 hPa	
<b>Density :</b>	( 20 °C )		1,1 g/cm <sup>3</sup>	
<b>Relative density :</b>	( 20 °C )		not determined	
<b>Solvent separation test :</b>	( 20 °C )		not determined	
<b>Water solubility :</b>	( 20 °C )		100 Weight-%	

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<b>pH :</b>				not determined
<b>log P O/W :</b>				not determined
<b>Flow time :</b>	( 20 °C )	approx.	13 - 15 s	DIN-cup 4 mm
<b>Odour threshold :</b>				not determined
<b>Relative vapour density :</b>	( 20 °C )			not determined
<b>Vapourisation rate :</b>		approx.	80	(Ether = 1)
<b>Flammable solids :</b>	Not relevant.			
<b>Flammable gases :</b>	Non-flammable.			
<b>Oxidising liquids :</b>	Not relevant.			
<b>Explosive properties :</b>	Not explosive according to EU A.14.			

### 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
Effective dose :	700 ppm

#### Corrosion

##### Skin corrosion/irritation

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

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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

### 13.1 Waste treatment methods

No information available.

## SECTION 14: Transport information



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### 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) No 1272/2008 [CLP]

No information available.

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

H301 Toxic if swallowed.

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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

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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.

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