

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

### 1.1 Product identifier

#### Trade name/designation

5170090 COLOURS FOR LIFE Satin paint, white

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

#### Relevant identified uses

Plating agent

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

AURO Pflanzenchemie AG  
Alte Frankfurter Straße 211  
38122 Braunschweig  
Deutschland  
Telephone: +49 531 28141-0  
Telefax: +49 531 28141-72  
E-mail: info@auro.de  
Website: www.auro.de

#### Department responsible for information

E-mail (competent person) msds@auro.de

### 1.4 Emergency telephone number

Emergency telephone number +44 1544388535  
Only available during office hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

not applicable

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 2.2 Label elements

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

#### Hazard pictograms

not applicable

#### Signal word

not applicable

#### Hazard statements

not applicable

#### Precautionary statements

not applicable

#### Hazard components for labelling

not applicable

#### Supplemental hazard information

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3 Other hazards

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

#### Description

#### Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
2682-20-4 220-239-6 613-326-00-9	<b>2-methylisothiazol-3(2H)-one</b> 01-2120764690-50 Acute Tox. 3 H301 / Acute Tox. 3 H311 / Skin Corr. 1B H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 10,00 ) / Aquatic Chronic 1 H410 (M = 10,00 ) / EUH071 Specific concentration limit (SCL): Skin Sens. 1A H317: >= 0,0015	< 0,025
3811-73-2 223-296-5 -	<b>Pyridine-2-thiol 1-oxide, sodium salt</b> 01-2119493385-28 Acute Tox. 4 H302 / Acute Tox. 3 H311 / Eye Irrit. 2A H319 / Acute Tox. 4 H332 / Aquatic Acute 1 H400 (M = 100,00 ) / Aquatic Chronic 2 H411	< 0,025

#### Remark

Full text of H- and EUH-statements: see section 16. Full text of H-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

#### Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Powder, spray mist, (water)

#### Unsuitable extinguishing media

Strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Ventilate affected area. Do not breathe vapours.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

#### For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

#### For cleaning up

Clean using cleansing agents. Do not use solvents.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see section 8 Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Advices on general occupational hygiene

When using do not eat, drink or smoke.

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

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3 Specific end use(s)

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No data available

#### Biological limit values

No data available

### 8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

#### Personal protection equipment

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## Hand protection

Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material  $\geq 0,4$  mm  
Breakthrough time  $\geq 480$  min

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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Recommended glove articles: EN ISO 374

## Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

## Eye/face protection

Eye glasses with side protection

## Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

## Environmental exposure controls

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

Physical state	liquid
Colour	refer to label

#### Safety characteristics

Odour	characteristic
Odour threshold	not determined
pH	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate at 20°C	not determined
Burning time	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20°C	17,109 mbar
Density at 20°C	1,2 kg/l
Water solubility at 20°C	partially soluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	not determined
Decomposition temperature	not determined
Viscosity	not determined
Explosive properties	not relevant
Oxidising properties	not relevant

### 9.2 Other information

not applicable

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

## 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

## 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

## 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

## 10.5 Incompatible materials

No further relevant information available.

## 10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### **Pyridine-2-thiol 1-oxide, sodium salt**

LD50: oral (Rat): = 1.208 mg/kg

LC50: inhalative (Rat): = 1,08 mg/L (4 h)

LD50: dermal (Rat): = 2.000 mg/kg

LD50: oral (Rat): = 1.208 mg/kg

LC50: inhalative (Rat): = 1,08 mg/L (4 h)

LD50: dermal (Rat): = 2.000 mg/kg

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

#### Respiratory or skin sensitisation

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

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## SECTION 12: Ecological information

### 12.1 Toxicity

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

**Acute (short-term) fish toxicity**

**2-methylisothiazol-3(2H)-one**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 4,77 mg/L (96 h)

**Pyridine-2-thiol 1-oxide, sodium salt**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 0,007 mg/L (96 h)

Method: OECD 203

**Acute (short-term) toxicity to algae and cyanobacteria**

**2-methylisothiazol-3(2H)-one**

EC50 (Selenastrum capricornutum): = 0,103 mg/L (72 h)

**2-methylisothiazol-3(2H)-one**

NOEC (Selenastrum capricornutum): = 0,05 mg/L (72 h)

**2-methylisothiazol-3(2H)-one**

EC50 (Skeletonema costatum): = 0,072 mg/L (72 h)

**2-methylisothiazol-3(2H)-one**

NOEC (Skeletonema costatum): = 0,072 mg/L (72 h)

**Pyridine-2-thiol 1-oxide, sodium salt**

NOEC (Selenastrum capricornutum): = 0,08 mg/L (72 h)

Method: OECD 201

**Pyridine-2-thiol 1-oxide, sodium salt**

EC50 (Selenastrum capricornutum): = 0,46 mg/L (72 h)

Method: OECD 201

**Acute (short-term) toxicity to crustacea**

**2-methylisothiazol-3(2H)-one**

EC50 (Daphnia magna (Big water flea)): = 0,934 mg/L (48 h)

**2-methylisothiazol-3(2H)-one**

LC50: (Mysidopsis bahia): = 2,98 mg/L (48 h)

**Pyridine-2-thiol 1-oxide, sodium salt**

EC50 (Daphnia magna (Big water flea)): = 0,022 mg/L (48 h)

Method: OECD 202

**Chronic (long-term) toxicity to aquatic invertebrate**

**2-methylisothiazol-3(2H)-one**

NOEC (Daphnia magna (Big water flea)): = 0,044 mg/L (21 d)

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water = -0,49

Partition coefficient: n-octanol/water = 0

## 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.

## 12.6 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### Waste codes/waste designations according to EWC/AVV

080120 - aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

**Other disposal recommendations**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1 UN number

not applicable

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

#### Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

#### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

not applicable

### 14.4 Packing group

not applicable

### 14.5 Environmental hazards

Land transport (ADR/RID) not applicable

Sea transport (IMDG) not applicable

### 14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No transport as bulk according to IBC Code.

### 14.8 Additional information

#### Land transport (ADR/RID)

not applicable

#### Sea transport (IMDG)

not applicable

#### Air transport (ICAO-TI / IATA-DGR)

not applicable

## SECTION 15: Regulatory information

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

#### EU legislation

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

##### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value: 0,888 g/l

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC limit value 2004/42/IIA(d): 130 g/l (2010)

Maximum VOC content (g/L) of the product in a ready to use condition: 0.8881

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

**Hazard categories / Named dangerous substances**

This product is not classified according to Directive 2012/18/EU.

### **National regulations**

## **15.2 Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

<b>REACH No.</b>	<b>Substance name</b>	<b>CAS No.</b>	<b>EC No.</b>
01-2120764690-50	2-methylisothiazol-3(2H)-one	2682-20-4	220-239-6
01-2119493385-28	Pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	223-296-5

## **SECTION 16: Other information**

### **Relevant R-, H- and EUH-phrases (Number and full text) Relevant R- and H-phrases (Number and full text):**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### **Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

not applicable

### **Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic and Reprotoxic

DIN: German Institute for Standardization / German industrial standard

DNEL: Derived No-Effect Level

EAKV: European Waste Catalogue Directive

EC: Effective Concentration

EC: European Community

EN: European Standard

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

LC: Lethal Concentration

LD: Lethal Dose

MWC: Maximum workplace concentration

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD: Organisation for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

### **Indication of changes**

\* Data changed compared with the previous version



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