

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

### 1.1 Product identifier

#### Trade name/designation

4010000                      Softwood lye  
UFI:                          TTX0-T08S-900K-CFR6

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

#### Relevant identified uses

Etchant and acids

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

#### Supplier

AURO Pflanzenchemie AG  
Alte Frankfurter Straße 211 A                      Telephone: +49 531 28141-0  
38122 Braunschweig                                      Telefax: +49 531 28141-72  
Germany    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

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Eye Dam. 1; Serious eye damage/eye irritation; H318 Causes serious eye damage.

### 2.2 Label elements

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

#### Hazard pictograms



GHS05

#### Signal word

Danger

#### Hazard statements

H318                          Causes serious eye damage.

#### Precautionary statements

P101                          If medical advice is needed, have product container or label at hand.  
P102                          Keep out of reach of children.  
P280                          Wear protective gloves and eye/face protection.  
P305 + P351 + P338                                      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310                          Immediately call a POISON CENTER.

#### Hazard components for labelling

Calcium dihydroxide

#### Supplemental hazard information

not applicable

### 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-%
* 1305-62-0 215-137-3 -	<b>Calcium dihydroxide</b> 01-2119475151-45 Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H335 ATE (oral): > 2,000 mg/kg ATE (oral): > 2,000 mg/kg	3,00 < 5,00

### 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.

#### Storage class

LGK12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### 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

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
1305-62-0	Calcium dihydroxide	WEL	5 / - (-) mg/m <sup>3</sup>
* 1305-62-0	Calcium dihydroxide	WEL	1 / 4 (-) mg/m <sup>3</sup> (respirable fraction)

#### Additional information

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

#### 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: EN 166

#### **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**

Physical state	Liquid
Colour	refer to label
Odour	characteristic
pH	13.3
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
flammability	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20°C	23 mbar
Relative vapour density	not applicable
Density at 20 °C	1.0 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	not determined
Decomposition temperature	not determined
Viscosity at 40 °C:	not determined

### **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 hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

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

- \* **Calcium dihydroxide**  
LD50: oral (Rat): > 2,000 mg/kg
- \* LD50: oral (Rat): > 2,000 mg/kg

#### **Skin corrosion/irritation**

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

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Respiratory or skin sensitisation**

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

- \* **Overall assessment on CMR properties**

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.

### 11.2 Information on other hazards

- \* **Endocrine disrupting properties**
- \* This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meet the criteria.

## SECTION 12: Ecological information

### 12.1 Toxicity

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

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

- \* **Calcium dihydroxide**  
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 50.6 mg/L (96 h)  
Method: OECD 203

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

- \* EC50 (Pseudokirchneriella subcapitata): = 184.57 mg/L (72 h)  
Method: OECD 201
- \* EC10 (Pseudokirchneriella subcapitata): = 79.22 mg/L (72 h)  
Method: OECD 201

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

- \* EC50 (Daphnia magna (Big water flea)): = 49.1 mg/L (48 h)  
Method: OECD 202
- \* NOEC (Daphnia magna (Big water flea)): = 33.3 mg/L (48 h)  
Method: OECD 202

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

No information available.

## 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\* Endocrine disrupting properties

No information available.

## 12.7 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

200115\* - alkalines

#### Other disposal recommendations

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

## SECTION 14: Transport information

### 14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments

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 juveniles 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 g/l

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

- \* VOC limit value: 2004/42/IIA(f): 130 g/l (2010)
- \* Maximum VOC content of the product in a ready to use condition: 0
- \* 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

- \* Observe in addition any national regulations!

### 15.2 Chemical Safety Assessment

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

REACH No.	Substance name	CAS No. EC No.
* 01-2119475151-45	Calcium dihydroxide	1305-62-0 215-137-3

## SECTION 16: Other information

### List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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

Eye Dam. 1 Calculation method.

#### 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

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878

# AURO

4010000  
Version 2.0

Softwood lye  
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VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.