

**SAFETY DATA SHEET****Pine Tar Vitriol**

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

|             |            |
|-------------|------------|
| Date issued | 14.09.2016 |
|-------------|------------|

**1.1. Product identifier**

|               |                  |
|---------------|------------------|
| Product name  | Pine Tar Vitriol |
| Chemical name | Tar solution     |
| Article no.   | 60590            |

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

|                                    |  |
|------------------------------------|--|
| Use of the substance / preparation | Wood protection  |
| Relevant identified uses           | SU21 Consumer uses: Private households (= general public = consumers)SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)PC9 Coatings and Paints, Fillers, Putties, ThinnersPC15 Products for treatment of non-metal surfaces |

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

|                  |  |
|------------------|--|
| Company name     | Auson AB   |
| Postal address   | Verkstadsgratan 3  |
| Postcode         | S-434 42   |
| City             | KUNGSBACKA   |
| Country          | SVERIGE  |
| Telephone number | +46 300-562000   |
| Fax              | +46 300-562021   |
| Email            | <a href="mailto:nina.nyth@auson.se">nina.nyth@auson.se</a> |
| Website          | <a href="http://www.auson.se/">http://www.auson.se/</a>    |
| Contact person   | Nina Nyth  |

**1.4. Emergency telephone number**

|                     |                       |
|---------------------|-----------------------|
| Emergency telephone | Telephone number: 112 |
|---------------------|-----------------------|

Description: SOS Alarm

## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

|  |  |
|--|--|
| Classification according to 67/548/EEC or 1999/45/EC                 | Xn,N; R10,R20/21/22,R36/38,R43,R51/53,R65  |
| Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] | Flam. Liq. 3; H226<br>Acute tox. 4; H302<br>Acute tox. 4; H312<br>Acute tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Asp. tox 1; H304<br>Aquatic Chronic 2; H411 |

### 2.2. Label elements

EC label Yes

#### Hazard pictograms (CLP)



|                          |   |
|--------------------------|---|
| Composition on the label | Turpentine, vegetable. 50 – 55 %, Pine Tar 40 – 45 %, Naphtha (petroleum), hydrotreated heavy, benzene < 0,1% 2 – 3 %   |
| Signal word              | Danger  |
| Hazard statements        | H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.  |
| Precautionary statements | P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P261 Avoid breathing dust/fume/mist. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P405 Store locked up. P501 Dispose of contents at hazardous or special waste collection point. |
| VOC                      | Product subcategory : Woodstain, oil or varnish for interior and exterior use.<br>Relevant VOC limit values: 700 g/l<br>Maximum content of VOC: 487 g/l   |

## 2.3. Other hazards

|                       |  |
|-----------------------|--|
| Description of hazard | Flammable Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. |
| Other hazards         | None   |

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

| Substance  | Identification   | Classification   | Contents  |
|--|--|--|-----------|
| Turpentine, vegetable.                                   | CAS No.: 8006-64-2<br>EC No.: 232-350-7  | Xn,N; R10,R20/21/22,R36/<br>38,R43,R51/53,R65<br>Aquatic Chronic 2;H411<br>Asp. tox 1;H304<br>Skin Sens. 1;H317<br>Eye Irrit. 2;H319<br>Skin Irrit. 2;H315<br>Acute tox. 4;H332<br>Acute tox. 4;H312<br>Acute tox. 4;H302<br>Flam. Liq. 3;H226 | 50 – 55 % |
| Pine Tar   | CAS No.: 8011-48-1<br>EC No.: 232-374-8  | Xi; R43<br>R52/53<br>Skin Sens. 1;H317<br>Aquatic Chronic 3; H412  | 40 – 45 % |
| Naphtha (petroleum) , hydrotreated heavy, benzene < 0,1% | CAS No.: 64742-48-9<br>EC No.: 265-150-3<br>Index No.: 649-327-00-6                        | Xn; R10,R65,R66,R67<br>Flam. Liq. 3; H226<br>Asp. tox 1; H304<br>STOT SE3; H336<br>EUH 066   | 2 – 3 %   |
| Remarks, substance                                       | See section 16 for explanation of Risk-phrases (R) and hazard statements (H) listed above. |  |           |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |   |
|--------------|---|
| Inhalation   | Fresh air and rest. Get medical advice if large amounts have been inhaled or the patient experiences discomfort.  |
| Skin contact | Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical advice if irritation persists.  |
| Eye contact  | Flush immediately with water for at least 5 minutes. Keep eye wide open while flushing. Get medical attention if any discomfort continues.  |
| Ingestion    | Immediately give a few tablespoons of cooking oil, sour cream, cream, or melted ice cream (NB! large amounts of fat) if the patient is fully conscious. DO NOT INDUCE VOMITING! In an emergency, contact the national Poisons Information Centre. |

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

|                              |  |
|------------------------------|--|
| General symptoms and effects | No further relevant information available. |
|------------------------------|--|

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

|                               |                           |
|-------------------------------|---------------------------|
| Specific details on antidotes | No information available. |
|-------------------------------|---------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | Dry chemical, foam or carbon dioxide (CO <sub>2</sub> ).  |
| Improper extinguishing media | Do not use a direct water jet that could spread the fire. |

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

|                            |  |
|----------------------------|--|
| Fire and explosion hazards | Heating leads to formation of combustible vapour which may form explosive mixture with air. Spontaneous combustion hazard. |
|----------------------------|--|

### 5.3. Advice for firefighters

|                   |  |
|-------------------|--|
| Other information | Containers close to fire should be removed immediately or cooled with water. |
|-------------------|--|

## SECTION 6: Accidental release measures

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

|                              |  |
|------------------------------|--|
| Personal protection measures | Use the specified protective equipment. Evacuate the area. |
|------------------------------|--|

### 6.2. Environmental precautions

|                                      |   |
|--------------------------------------|---|
| Environmental precautionary measures | Do not allow spill to enter sewers or watercourses. Inform appropriate authorities if large amounts are involved. |
|--------------------------------------|---|

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

|                 |   |
|-----------------|---|
| Cleaning method | Avoid release to the environment. Cover drains. |
|-----------------|---|

### 6.4. Reference to other sections

|                    |  |
|--------------------|--|
| Other instructions | Absorb in a special absorbent and transport to approved waste management facility. |
|--------------------|--|

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|          |  |
|----------|--|
| Handling | Always use earth (ground) wire when transferring from one container to another. Avoid contact with skin and eyes. Avoid inhalation of vapours. |
|----------|--|

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

|         |   |
|---------|---|
| Storage | Keep away from sources of ignition – No smoking. Store in original container. Keep in a |
|---------|---|

|                              |   |
|------------------------------|---|
|                              | well-ventilated place. Keep container tightly closed. |
| Special risks and properties | Avoid contact with strong oxidizing agents.           |

### 7.3. Specific end use(s)

|                 |                 |
|-----------------|-----------------|
| Specific use(s) | See Section 1.2 |
|-----------------|-----------------|

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

| Substance   | Identification          | Value   | TWA Year       |
|---|-------------------------|---|----------------|
| Turpentine, vegetable.                                    | CAS No.: 8006-64-2      | TWA (8h) : 25 ppm   | TWA Year: 1990 |
|   | EC No.: 232-350-7       | TWA (8h) : 150 mg/m <sup>3</sup>                            |                |
|   |                         | <b>OEL short term value</b><br>Value: 50 ppm                |                |
| Naphtha (petroleum) , hydro-treated heavy, benzene < 0,1% | CAS No.: 64742-48-9     | TWA (8h) : 50 ppm   | TWA Year: 2011 |
|   | EC No.: 265-150-3       | TWA (8h) : 300 mg/m <sup>3</sup>                            |                |
|   | Index No.: 649-327-00-6 | <b>OEL short term value</b><br>Value: 100 ppm               |                |
|   |                         | <b>OEL short term value</b><br>Value: 600 mg/m <sup>3</sup> |                |

### DNEL / PNEC

|  |                           |
|--|---------------------------|
| Summary of risk management measures, human       | No information available. |
| Summary of risk management measures, environment | No information available. |

### 8.2. Exposure controls

|                                     |  |
|-------------------------------------|--|
| Limitation of exposure on workplace | Provide good ventilation. Keep containers closed, as much as possible. No smoking, fire, sparks or welding. Eyewash facilities should be available at the workplace. |
|-------------------------------------|--|

### Safety signs



### Respiratory protection

|                        |   |
|------------------------|---|
| Respiratory protection | Wear suitable respiratory equipment if ventilation is insufficient. Respirator with A filter (brown). |
|------------------------|---|

### Hand protection

|                 |   |
|-----------------|---|
| Hand protection | Protective gloves must be used if there is a risk of direct contact or splashes. Use suitable protective gloves made of nitrile rubber. |
|-----------------|---|

**Eye / face protection**

|                |  |
|----------------|--|
| Eye protection | Wear approved, tight fitting safety glasses where splashing is probable. |
|----------------|--|

**Skin protection**

|                                |   |
|--------------------------------|---|
| Skin protection (except hands) | Protective clothing must be worn if there is a possibility of direct contact or splashes. |
|--------------------------------|---|

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                               |  |
|-------------------------------|--|
| Physical state                | Free-flowing liquid.                                 |
| Colour                        | Greyish brown.                                       |
| Odour                         | Tar.   |
| Odour limit                   | Comments: Not determined.                            |
| Melting point / melting range | Comments: Not determined.                            |
| Boiling point / boiling range | Value: > 140 °C                                      |
| Flash point                   | Value: = 35 °C                                       |
| Vapour pressure               | Comments: No data recorded.                          |
| Specific gravity              | Value: = 940 kg/m <sup>3</sup><br>Temperature: 20 °C |
| Solubility description        | Soluble in organic solvents.                         |
| Solubility in water           | Slight soluble in water                              |

**9.2. Other information****Other physical and chemical properties**

|          |  |
|----------|--|
| Comments | No further relevant information available. |
|----------|--|

**SECTION 10: Stability and reactivity****10.1. Reactivity**

|            |  |
|------------|--|
| Reactivity | Keep away from heat / sparks / open flames / hot surfaces. — No smoking. |
|------------|--|

**10.2. Chemical stability**

|           |                              |
|-----------|------------------------------|
| Stability | Stable with normal handling. |
|-----------|------------------------------|

**10.3. Possibility of hazardous reactions**

|                                    |                               |
|------------------------------------|-------------------------------|
| Possibility of hazardous reactions | No hazardous reactions known. |
|------------------------------------|-------------------------------|

**10.4. Conditions to avoid**

|                     |                           |
|---------------------|---------------------------|
| Conditions to avoid | No information available. |
|---------------------|---------------------------|

## 10.5. Incompatible materials

|                    |                          |
|--------------------|--------------------------|
| Materials to avoid | Strong oxidizing agents. |
|--------------------|--------------------------|

## 10.6. Hazardous decomposition products

|                                  |  |
|----------------------------------|--|
| Hazardous decomposition products | No formation of hazardous decomposition products are expected under normal conditions. |
|----------------------------------|--|

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

### Toxicological data for substances

|           |                        |
|-----------|------------------------|
| Substance | Turpentine, vegetable. |
|-----------|------------------------|

|                |   |
|----------------|---|
| Acute toxicity | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LC50<br/> <b>Route of exposure:</b> Inhalation.<br/> <b>Duration:</b> 6 h<br/> <b>Value:</b> 12000 mg/m<sup>3</sup><br/> <b>Animal test species:</b> rat</p> |
|----------------|---|

|  |  |
|--|--|
|  | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Oral<br/> <b>Value:</b> 5760 mg/kg<br/> <b>Animal test species:</b> rat</p> |
|--|--|

|           |   |
|-----------|---|
| Substance | Naphtha (petroleum), hydrotreated heavy, benzene < 0,1% |
|-----------|---|

|                |   |
|----------------|---|
| Acute toxicity | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Oral<br/> <b>Value:</b> &gt; 2000 mg/kg<br/> <b>Animal test species:</b> rat</p> |
|----------------|---|

|  |  |
|--|--|
|  | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Dermal<br/> <b>Value:</b> &gt; 2000 mg/kg<br/> <b>Animal test species:</b> rabbit</p> |
|--|--|

|  |  |
|--|--|
|  | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LC50<br/> <b>Route of exposure:</b> Inhalation.<br/> <b>Duration:</b> 4h<br/> <b>Value:</b> &gt; 5000 mg/m<sup>3</sup><br/> <b>Animal test species:</b> rat</p> |
|--|--|

### Acute toxicity, Mixture estimate

|                                  |                              |
|----------------------------------|------------------------------|
| Acute toxicity, human experience | No aspiration hazards known. |
|----------------------------------|------------------------------|

## Potential acute effects

|   |   |
|---|---|
| Inhalation                                    | May cause slight irritation to the mucous membranes in the nose and upper respiratory tract. May cause Headache. Dizziness. Fatigue.  |
| Skin contact                                  | Defats the skin. Irritating to skin.  |
| Eye contact                                   | May cause irritation/smarting.  |
| Ingestion                                     | Smarting in mouth and throat. Abdominal pains. Vomiting. Causes similar symptoms as by inhalation. Chemical pneumonitis may develop in from a few hours to up to a day after ingestion of the product, or if vomit has entered the lungs. |
| Skin corrosion / irritation, human experience | May cause an allergic skin reaction.  |
| Aspiration hazard, comments                   | Aspiration may cause chemical pneumonitis.  |
| Eye damage or irritation, human experience    | Causes serious eye irritation.  |

## Delayed effects / repeated exposure

|                        |   |
|------------------------|---|
| 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. |

## Carcinogenic, Mutagenic or Reprotoxic

|  |   |
|--|---|
| Carcinogenicity, other information                   | Does not present any cancer or reproductive hazards.        |
| Assessment of germ cell mutagenicity, classification | The chemical structure does not suggest a mutagenic effect. |
| Reproductive toxicity                                | The chemical structure does not suggest such an effect.     |

## SECTION 12: Ecological information

### 12.1. Toxicity

|             |  |
|-------------|--|
| Ecotoxicity | May cause longterm adverse effects in the aquatic environment. |
|-------------|--|

### Toxicological data for substances

|                        |  |
|------------------------|--|
| Substance              | Naphtha (petroleum), hydrotreated heavy, benzene < 0,1%  |
| Acute aquatic, fish    | <b>Value:</b> > 100 mg/L<br><b>Test duration:</b> 96h<br><b>Method:</b> LC50                                     |
| Acute aquatic, algae   | <b>Value:</b> > 100 mg/L<br><b>Test duration:</b> 72h<br><b>Method:</b> EC50                                     |
| Acute aquatic, Daphnia | <b>Value:</b> > 100 mg/L<br><b>Test duration:</b> 48h<br><b>Method:</b> EC50                                     |
| Aquatic, comments      | Low toxicity for aquatic organisms. Available data indicates that only larger local discharges may cause a risk. |



## 12.2. Persistence and degradability

|   |                         |
|---|-------------------------|
| Persistence and degradability, comments | Not readily degradable. |
|---|-------------------------|

## 12.3. Bioaccumulative potential

|                           |                          |
|---------------------------|--------------------------|
| Bioaccumulative potential | No information available |
|---------------------------|--------------------------|

## 12.4. Mobility in soil

|                  |                              |
|------------------|------------------------------|
| Water solubility | Comments: Insoluble in water |
|------------------|------------------------------|

## 12.5. Results of PBT and vPvB assessment

|                        |   |
|------------------------|---|
| PBT assessment results | The product does not contain any PBT or vPvB substance. |
|------------------------|---|

## 12.6. Other adverse effects

|                                 |  |
|---------------------------------|--|
| Other adverse effects, comments | Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment. |
|---------------------------------|--|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|   |   |
|---|---|
| Specify the appropriate methods of disposal | Dispose of in compliance with local regulations. Residues must be treated as hazardous waste. |
| Product classified as hazardous waste       | Yes   |
| Packaging classified as hazardous waste     | No  |
| EWC waste code                              | EWC: 03 02 05 other wood preservatives containing dangerous substances                        |

## SECTION 14: Transport information

### 14.1. UN number

|                 |      |
|-----------------|------|
| ADR / RID / ADN | 1299 |
| IMDG            | 1299 |
| ICAO / IATA     | 1299 |

### 14.2. UN proper shipping name

|  |                  |
|--|------------------|
| Proper shipping name english ADR / RID / ADN | Pine Tar Vitriol |
| ADR / RID / ADN                              | TURPENTINE       |
| IMDG   | TURPENTINE       |
| ICAO / IATA                                  | TURPENTINE       |

### 14.3. Transport hazard class(es)

|                 |   |
|-----------------|---|
| ADR / RID / ADN | 3 |
| IMDG            | 3 |
| ICAO / IATA     | 3 |

#### 14.4. Packing group

|                 |     |
|-----------------|-----|
| ADR / RID / ADN | III |
| IMDG            | III |
| ICAO / IATA     | III |

#### 14.5. Environmental hazards

|                       |     |
|-----------------------|-----|
| ADR / RID / ADN       | Yes |
| IMDG                  | Yes |
| IMDG Marine pollutant | Yes |

#### 14.6. Special precautions for user

|     |          |
|-----|----------|
| EmS | F-E, S-E |
|-----|----------|

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

##### Additional information

|                        |                  |
|------------------------|------------------|
| Additional information | Limited quantity |
|------------------------|------------------|

##### ADR / RID - Other information

|            |    |
|------------|----|
| Hazard No. | 30 |
|------------|----|

### SECTION 15: Regulatory information

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

|                               |   |
|-------------------------------|---|
| EEC-directive                 | 2006/121/2006   |
| References (laws/regulations) | The product is classified and labelled in accordance with EEC guidelines or national legislation. |
| Legislation and regulations   | Regulation (EC) nr. 1907/2006 Regulation (EC) nr. 1272/2008.                                      |

#### 15.2. Chemical safety assessment

|                                      |    |
|--------------------------------------|----|
| Chemical safety assessment performed | No |
|--------------------------------------|----|

### SECTION 16: Other information

|           |   |
|-----------|---|
| R-phrases | R10 Flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36/38 Irritating to eyes and skin. R43 May cause sensitization by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in |
|-----------|---|

|  |   |
|--|---|
| S-phrases  | <p>the aquatic environment. R65 Harmful: may cause lung damage if swallowed.</p> <p>S-2 Keep out of the reach of children. S-51 Use only in well-ventilated areas. S-56 Dispose of this material and its container at hazardous or special waste collection point. S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.</p>   |
| Supplier's notes   | <p>These data are based on our best knowledge to date, however they do not imply any guarantee on the properties or quality of the product. In case of uncertainties we advise you to make own tests or ask for written directions from us.</p>   |
| List of relevant R-phrases (under headings 2 and 3).                 | <p>R43 May cause sensitization by skin contact.<br/> R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br/> R65 Harmful: may cause lung damage if swallowed.<br/> R36/38 Irritating to eyes and skin.<br/> R67 Vapours may cause drowsiness and dizziness.<br/> R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.<br/> R10 Flammable.<br/> R66 Repeated exposure may cause skin dryness or cracking.<br/> R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br/> R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> |
| List of relevant H-phrases (Section 2 and 3)                         | <p>H302 Harmful if swallowed.<br/> H412 Harmful to aquatic life with long lasting effects.<br/> H304 May be fatal if swallowed and enters airways.<br/> H226 Flammable liquid and vapour.<br/> H336 May cause drowsiness or dizziness.<br/> H315 Causes skin irritation.<br/> H332 Harmful if inhaled.<br/> H317 May cause an allergic skin reaction.<br/> EUH 066 Repeated exposure may cause skin dryness or cracking.<br/> H312 Harmful in contact with skin.<br/> H411 Toxic to aquatic life with long lasting effects.<br/> H319 Causes serious eye irritation.</p>  |
| Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] | <p>Flam. Liq. 3; H226;<br/> Acute tox. 4; H302;<br/> Asp. tox 1; H304;<br/> Acute tox. 4; H312;<br/> Skin Irrit. 2; H315;<br/> Skin Sens. 1; H317;<br/> Eye Irrit. 2; H319;<br/> Acute tox. 4; H332;<br/> Aquatic Chronic 2; H411;</p>  |
| Version  | 4   |
| Expired date   | 14.09.2019  |