1 Identification

- Product identifier
- Trade name: WEIGERT’S IRON HEMATOXYLIN A
- Article number:
  26044-05, 26458-04, 26364-02, 26350-02, 26102-1A, 26044-06, 26386-02, 26109-1A, 26320-03, 26758-01, 26853-05, 26370-03, 26367-02
- Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
  - Information department: Product safety department
  - Emergency telephone number:
    ChemTrec 1-800-424-9300 Contract CCN7661
    1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS02 Flame
    Flammable Liquids 2
    H225 Highly flammable liquid and vapor.
  - GHS08 Health hazard
    Carcinogenicity 1A
    H350 May cause cancer.
    Specific Target Organ Toxicity - Single Exposure 2
    H371 May cause damage to the central nervous system and the visual organs.

- Label elements
- GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms
  - GHS02
  - GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  - Ethyl alcohol
  - Methyl Alcohol

- Hazard statements
  - Highly flammable liquid and vapor.
  - May cause cancer.
  - May cause damage to the central nervous system and the visual organs.

- Precautionary statements
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Keep container tightly closed.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 2)
Trade name: WEIGERT'S IRON HEMATOXYLIN A

(Contd. of page 1)

Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If exposed or concerned: Get medical advice/attention.
In case of fire: Use CO2, sand, extinguishing powder to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
  · NFPA ratings (scale 0 - 4)
    Health = 0
    Fire = 3
    Reactivity = 0

· HMIS-ratings (scale 0 - 4)
  Health = *0
  Fire = 3
  Reactivity = 0

· Other hazards
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures
  · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:
  64-17-5 Ethyl alcohol >50-≤100% 
  67-56-1 Methyl Alcohol >2.5-≤10% 
  517-28-2 haematoxylin ≤2.5%

4 First-aid measures

· Description of first aid measures
  · General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  · After inhalation:
    Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
    In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact: Generally the product does not irritate the skin.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: If symptoms persist consult doctor.

(Contd. on page 3)
Trade name: WEIGERT'S IRON HEMATOXYLIN A

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture
  - No further relevant information available.

- Advice for firefighters
  - Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.

- Environmental precautions:
  - Dilute with plenty of water.
  - Do not allow to enter sewers/surface or ground water.

- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to section 13.
  - Ensure adequate ventilation.

- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

- Protective Action Criteria for Chemicals

  PAC-1:
  - 64-17-5 Ethyl alcohol 1,800 ppm
  - 67-56-1 Methyl Alcohol 530 ppm

  PAC-2:
  - 64-17-5 Ethyl alcohol 3300* ppm
  - 67-56-1 Methyl Alcohol 2,100 ppm

  PAC-3:
  - 64-17-5 Ethyl alcohol 15000* ppm
  - 67-56-1 Methyl Alcohol 7200* ppm

7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Ensure good ventilation/exhaustion at the workplace.
    - Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    - Keep ignition sources away - Do not smoke.
    - Protect from heat.

(Contd. on page 4)
Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - Requirements to be met by storerooms and receptacles: Store in a cool location.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    - Keep receptacle tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
    - Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
  - Components with limit values that require monitoring at the workplace:
    The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    At this time, the remaining constituent has no known exposure limits.

#### 64-17-5 Ethyl alcohol

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>Long-term value: 1900 mg/m³, 1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Long-term value: 1900 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 1000 ppm</td>
</tr>
</tbody>
</table>

#### 67-56-1 Methyl Alcohol

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>Long-term value: 260 mg/m³, 200 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Short-term value: 325 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 260 mg/m³, 200 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 250 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>Skin; BEI</td>
</tr>
</tbody>
</table>

#### Ingredients with biological limit values:

#### 67-56-1 Methyl Alcohol

<table>
<thead>
<tr>
<th>BEI</th>
<th>15 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Methanol (background, nonspecific)</td>
</tr>
</tbody>
</table>

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Wash hands before breaks and at the end of work.
- **Breathing equipment:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

(Contd. on page 5)
Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:
Form: Liquid
Color: Amber colored
Odor: Alcohol-like
Odor threshold: Not determined.

pH-value: Not determined.

Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

Flash point: 16.6 °C (61.9 °F)

Flammability (solid, gaseous): Highly flammable.

Auto igniting: 363 °C (685.4 °F)

Decomposition temperature: Not determined.

Ignition temperature: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits:
Lower: 3.3 Vol %
Upper: 19 Vol %

Vapor pressure at 20 °C (68 °F): 59 hPa (44.3 mm Hg)

Density: Not determined.
Relative density: Not determined.
Vapor density: Not determined.
Evaporation rate: Not determined.
Trade name: WEIGERT'S IRON HEMATOXYLIN A

- Solubility in / Miscibility with Water: Fully miscible.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

- Solvent content:
  Organic solvents: 95.0 %
  Water: 4.0 %
  VOC content: 95.00 %

- Solids content: 0.0 %

- Other information
  No further relevant information available.

10 Stability and reactivity

- Reactivity
  No further relevant information available.

- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions
    No dangerous reactions known.
  - Conditions to avoid
    No further relevant information available.
  - Incompatible materials
    No further relevant information available.
  - Hazardous decomposition products
    No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      64-17-5 Ethyl alcohol
      Oral LD50 7,060 mg/kg (rat)
      Inhalative LC50/4 h 20,000 mg/l (rat)

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.

- Sensitization: No sensitizing effects known.

- Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
  Harmful

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    64-17-5 Ethyl alcohol 1

- NTP (National Toxicology Program)
  None of the ingredients is listed.
12 Ecological information

- **Toxicity**
  - Aquatic toxicity: No further relevant information available.
- **Persistence and degradability**: No further relevant information available.
- **Behavior in environmental systems**:
  - Bioaccumulative potential: No further relevant information available.
- **Mobility in soil**: No further relevant information available.
- **Additional ecological information**:
  - General notes:
    - Water hazard class 1 (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**:
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**:
  - **Recommendation**: Disposal must be made according to official regulations.
  - **Recommended cleansing agent**: Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1987
  - **DOT proper shipping name**
    - Alcohols, n.o.s. (Ethanol, Methanol)
  - **ADR**
    - 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)
  - **IMDG**
    - ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)
  - **IATA**
    - ALCOHOLS, N.O.S. (ETHANOL, METHANOL)
- **Transport hazard class(es)**
  - **DOT**
    - 3 Flammable liquids

(Contd. on page 8)
### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  No further relevant information available.

- **Sara**
  None of the ingredients is listed.

- **Section 355 (extremely hazardous substances):**
  None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**
  67-36-1 Methyl Alcohol

- **TSCA (Toxic Substances Control Act):**
  All components have the value ACTIVE.
### Hazardous Air Pollutants

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methyl Alcohol</td>
</tr>
</tbody>
</table>

### Proposition 65

- **Chemicals known to cause cancer:**
  - None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**
  - None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**
  - None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methyl Alcohol</td>
</tr>
</tbody>
</table>

### Carcinogenic categories

- **EPA (Environmental Protection Agency)**
  - None of the ingredients is listed.

- **TLV (Threshold Limit Value)**
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>A3</td>
</tr>
</tbody>
</table>

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - None of the ingredients is listed.

### GHS label elements

- The product is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard pictograms

- GHS02
- GHS08

### Signal word

**Danger**

### Hazard-determining components of labeling:

- Ethyl alcohol
- Methyl Alcohol

### Hazard statements

- Highly flammable liquid and vapor.
- May cause cancer.
- May cause damage to the central nervous system and the visual organs.

### Precautionary statements

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
56.1.8

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed or concerned: Get medical advice/attention.
In case of fire: Use CO2, sand, extinguishing powder to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Date of preparation / last revision 09/05/2023

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Carcinogenicity 1A: Carcinogenicity – Category 1A
Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2