Product Number: 42

**HW Translucent**

**Description**

A spirit based wood stain to apply over HW02E. Available in satin finish. Suitable for internal or external use.

This product comprises the following materials and therefore is supported by Health & Safety Data Sheets:

- (Appendix 77) HW Translucent

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user’s own assessment of workplace risk as required by other health and safety legislation.*
1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product Identifier

PRODUCT NAME: HW Translucent Satin

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

PRODUCT USE: Consumer applications, Professional applications
USE OF THE SUBSTANCE/MIXTURE: Coating

1.3 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE/FAX/EMAIL: 01304 842555 01304 842666 sales@envirograf.com

1.4 Emergency telephone number

SUPPLIER TELEPHONE NUMBER: 01304 842555 (Office hours only)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

PRODUCT DEFINITION: Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 3, H226
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended
See Section 16 for the full text of the H statements declared above
See Section 11 for more detailed information on health effects and symptoms

2.2 Label elements

Hazard pictograms:

Signal Word: Warning
Hazard Statements: Flammable liquid and vapour

PRECAUTIONARY STATEMENTS

General: Keep out of reach of children. If medical advice is needed, have product container or label at hand
Prevention: Wear Protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response: If On Skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water or shower.
Storage: Store in a well-ventilated place. Keep cool.
Disposal: Dispose of contents & container in accordance with all local, regional, national & international regulations.
P102, P101, P280, P210, P303 + P361 + P353. P403, P235, P501
Hazardous Ingredients: Nor applicable
Supplemental Label Elements: Contains octhilinone (ISO) and 2-butanone oxime. May produce an allergic reaction.
Annex xvii – restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable

Special packaging requirements
Containers to be fitted with child-resistant fastenings: Not applicable
Tactile warning of danger: Not applicable

2.3 Other hazards
Other hazards which do not result in classification: Prolonged or repeated contact may dry skin and cause irritation.
3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures:  

<table>
<thead>
<tr>
<th>Product/ingredient Name</th>
<th>Identifiers</th>
<th>% by weight</th>
<th>Classification Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
</table>
| Distillates (petroleum) hydrotreated light | EC: 265-149-8  
CAS: 64742-47-8  
Index: 649-422-00-2 | ≥10 - ≤25 | Asp.Tox. 1, H304 | [1] |
| Naphtha (petroleum), hydrotreated heavy | EC: 265-150-3  
CAS: 64742-48-9  
Index: 649-327-00-6 | ≥10 - <20 | Flam. Liq. 3, H226  
Asp. Tox. 1, H304  
EUH066 | [1] |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics | REACH#: 01-2119463258-33  
EC: 919-857-5  
CAS: 64742-48-9 | ≥10 - <20 | Flam. Liq. 3, H226  
STOT SE 3, H336  
Asp. Tox. 1, H304  
EUH066 | [1] |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics | REACH#: 01-2119457273-39  
EC: 918-481-9  
CAS: 64742-48-9 | ≥5.0 - ≤10 | Asp. Tox. 1, H304  
EUH066 | [1] |
| 2-butanone oxime | REACH#: 01-2119539477-28  
EC: 202-496-6  
CAS: 96-29-7  
Index: 616-014-00-0 | <1.0 | Acute Tox. 4, H312  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
Carc. 2, H351 | [1] |
| 2-ethylhexanoic acid, zinc salt | REACH#: 01-2119979088-21  
EC: 245-018-1  
CAS: 22464-99-9 | ≤1.0 | Repr. 2, H361fd (Fertility and unborn child) (oral)  
See Section 16 for the full text of the H statements declared above. | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard  
[2] Substance with a workplace exposure limit  
[5] Substance of equivalent concern  

Occupational exposure limits, if available, are listed in Section 8  
SUB codes represent substance without registered CAS numbers.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Remove contact lenses. Irrigate copiously with clean, fresh water holding the eyelids apart for at least 10 minutes. Seek immediate medical advice.

Inhalation: Remove to fresh air, keep patient warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or a recognized skin cleaner. DO NOT USE SOLVENT OR THINNERS.

Ingestion: If accidentally swallowed seek medical advice immediately and show the container or label. Keep person warm and at rest. DO NOT induce vomiting.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

POTENTIAL ACUTE HEALTH EFFECTS

Eye Contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin Contact: Defatting to the skin. May cause dryness and irritation.

Ingestion: No known significant effects or critical hazards.

OVER-EXPOSURE SIGNS/SYMPTOMS

Eye Contact: No specific data

Inhalation: No specific data

Skin Contact: Adverse symptoms may include irritation, redness, dryness, cracking.

Ingestion: No specific data
4.3 Indication of any immediate medical attention and special treatment needed
Notes To Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments: No specific treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Suitable Extinguishing Media: Use dry chemical, CO2, water spray (fog) or foam
Unsuitable Extinguishing Media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture
Hazardous From The Substance Or Mixture: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard
Hazardous Combustion Products: Decomposition products may include the following materials: metal oxide/oxides.

5.3 Advice for firefighters
Special Precautions for Firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special Protective Equipment For Firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) confirming to European standard EN 469 will provide a basic level of protection for chemical incidents

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For Non-Emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel.”

6.2 Environmental Precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

6.3 Methods and material for containment and cleaning up
Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other Sections
See Section 1 for emergency contact information
See Section 8 for information appropriate personal protective equipment
See Section 13 for additional waste treatment information
7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Storage temperature 5 to 25°C (41 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for identified uses.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product / ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-ethylhexanoic acid, zirconium salt</td>
<td>EH40/2005 WELs (United Kingdom (UK). 12/2011). STEL: 10 mg/m³, (as Zr) 15 minutes TWA: 5 mg/m³, (as Zr) 8 hours</td>
</tr>
</tbody>
</table>

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
### DNELs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C9-C11</td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>208 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>n-alkalines, isoalkanes</td>
<td>DNEL</td>
<td>Long term inhalation</td>
<td>871 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>cyclics, &lt;2% aromatics</td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>125 mg/kg bw/day</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term inhalation</td>
<td>185 mg/m³</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Oral</td>
<td>125 mg/kg bw/day</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td>2-butanone oxime</td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>2.5 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>2.7 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>0.78 mg/kg bw/day</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Dermal</td>
<td>1.5 mg/kg bw/day</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
</tbody>
</table>

### PNECs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Compartment Detail</th>
<th>Value</th>
<th>Method Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butanone oxime</td>
<td>-</td>
<td>Fresh water</td>
<td>0.256 mg/l</td>
<td>Assessment Factors</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>Sewage treatment plant</td>
<td>177 mg/l</td>
<td>Assessment Factors</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

**Appropriate engineering controls**: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**: Chemical splash goggles.

**Skin protection**

**Hand Protection**: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class or 2 or higher (breakthrough time greater that 30 minutes according to EN374) is recommended.

**Gloves**: Nitrile rubber

**Body protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

**Other skin protection**: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

**Appearance**
- Physical state: Liquid
- Colour: Clear
- Odour: Hydrocarbon [slight]
- Odour threshold: Not available
- pH: Insoluble in water

**Melting/freezing point**
- May start to solidify at the following temperature: -49°C (-56.2°F). This is based on data for the following ingredient: Distillates (petroleum), hydrotreated light. Weighted average -62.84°C (-81.1°F)

**Initial boiling point and boiling range**
- 145°C

**Flash point**
- Closed cup: 45°C

**Evaporation rate**
- Highest known value: 0.04 (Hydrocarbons C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics). Weighted average: 0.11 compared with butyl acetate

**Material supports combustion**
- Yes

**Flammability (solid, gas)**
- Liquid

**Upper/lower flammability or explosive limits**
- Greatest known range: Lower 0.6% Upper 7% (Hydrocarbons C9-C11 n-alkanes, isoalkanes, cyclics, <2% aromatics). Weighted average: 0.16kPa (1.2mm Hg) (at 20°C)

**Vapour pressure**
- Highest known value: 0.3 kPa (2.3mm Hg) (at 20°C) (Hydrocarbons C9-C11, n-alkanes, cyclics, <2% aromatics). Weighted Average: 0.16kPa (1.2mm Hg) (at 20°C)

**Vapour density**
- Highest known value: 4.5 (Air = 1) 0.04 (Distillates (petroleum), hydrotreated light).
- Relative density: 0.95

**Solubility(ies)**
- Insoluble in the following materials: cold water

**Partition coefficient: n-octanol/water**
- Not applicable

**Auto-ignition temperature**
- Lowest known value: >220°C (>428°F) (Distillates (petroleum), hydrotreated light).

**Decomposition temperature**
- Stable under recommended storage and handling conditions (see Section 7)

**Viscosity**
- Kinematic (room temperature): >4cm²/s
- Kinematic (40°C): >2.1cm²/s

**Explosive properties**
- Product does not present an explosion hazard

**Oxidising properties**
- Product does not present an explosion hazard

9.2 Other information
No additional information.

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
- The product is stable

10.3 Possibility of hazardous reactions
- Under normal conditions of storage and use, hazardous reaction will not occur

10.4 Conditions to avoid
- When exposed to high temperature may produce hazardous decomposition products. Refer to protective measures listed in Sections 7 & 8

10.5 Incompatible materials
- Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products
- Depending on conditions, decomposition products may include the following materials: metal oxide/oxides
11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;6g/kg</td>
<td>-</td>
</tr>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;6g/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-butanone oxime</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>930mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-ethylhexanoic acid, zirconium salt</td>
<td>LD50 Oral</td>
<td>Rabbit</td>
<td>&gt;5 g/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

Irritation/Corrosion

Conclusion/Summary: Not available

Sensitisation

Conclusion/Summary: Not available

Mutagenicity

Conclusion/Summary: Not available

Carcinogenicity

Conclusion/Summary: Not available

Reproductive toxicity

Conclusion/Summary: Not available

Teratogenicity

Conclusion/Summary: Not available

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>Category 3</td>
<td>Not applicable</td>
<td>Narcotic effects</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

<table>
<thead>
<tr>
<th>Product / ingredients name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>ASPIRATION HAZARD – Category 1</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>ASPIRATION HAZARD – Category 1</td>
</tr>
<tr>
<td>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</td>
<td>ASPIRATION HAZARD – Category 1</td>
</tr>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% Aromatics</td>
<td>ASPIRATION HAZARD – Category 1</td>
</tr>
</tbody>
</table>

Information on the likely routes of exposure – Not available

Potential acute health effects

inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical chemical and toxicological characteristics

inhalation: No specific data

Ingestion: No specific data

Skin contact: Adverse symptoms may include the following:

- Irritation
- Dryness
- Cracking
Eye contact: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available

Long term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available
Potential chronic health effects: Not available
Conclusion/Summary: Not available

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Other information: Not available

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No. 1272/2008 and is classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated Occupational Exposure Limit may result in adverse health effects such as irritation of the mucous membrane and respiratory system and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-butanone oxime, octhilinone (ISO). May produce an allergic reaction.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Conclusion/Summary: No data available

12.2 Persistence and degradability:
Conclusion/Summary: Not available

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics &lt;2% aromatics</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>-</td>
<td>159</td>
<td>Low</td>
</tr>
<tr>
<td>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics &lt;2% aromatics</td>
<td>-</td>
<td>10 to 2500</td>
<td>High</td>
</tr>
<tr>
<td>2-butanone oxime</td>
<td>0.63</td>
<td>5.01</td>
<td>Low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

<table>
<thead>
<tr>
<th>Soil/water partition</th>
<th>Coefficient (Koc)</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Not available</td>
</tr>
</tbody>
</table>

12.5 Results of PBT abd vPvB assessment

<table>
<thead>
<tr>
<th>PBT</th>
<th>vPvB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

12.6 Other adverse effects: No known significant effects or critical hazards.
13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

| Product Methods of disposal | The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Yes

**European waste catalogue (EWC)**

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 11*</td>
<td>Waste paint and varnish containing organic solvents or other dangerous substances</td>
</tr>
</tbody>
</table>

**Packaging**

| Methods of disposal | The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |

**Type of packaging**

<table>
<thead>
<tr>
<th>Container</th>
<th>European waste catalogue (EWC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 01 04</td>
<td>metallic packing</td>
</tr>
</tbody>
</table>

**Special precautions**

- This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2 proper shipping name</th>
<th>PAINT</th>
<th>PAINT</th>
<th>PAINT</th>
<th>PAINT</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>3</th>
<th>3</th>
<th>3</th>
<th>3</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>III</th>
<th>III</th>
<th>III</th>
<th>III</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.5 environmental hazards Marine pollutant substances</th>
<th>No</th>
<th>Not applicable</th>
<th>No</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

**Additional information**

- ADR/RID: This class 3 material is not subject to regulation in packagings up to 450L. Exempted according to 2.2.3.1.5 (Viscous substance exemption)
- Tunnel code: (D/E)
- ADN: This class 3 material is not subject to regulation in packagings up to 450L. Exempted according to 2.2.3.1.5 (Viscous substance exemption)
- IMDG: None identified
- IATA: None identified

**Special precautions for user**: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable
15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV – List of substances subject to authorisation
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
None of the components are listed.

Other EU regulations

VOC for Ready-for-Use Mixture : IIA/e. Interior/exterior trim varnishes and woodstains, including opaque woodstains. EU Limit values: 400g/l (2010)
This product contains a maximum of 400g/l VOC

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Carcinogenic Effects</th>
<th>Mutagenic effects</th>
<th>Developmental Effects</th>
<th>Fertility effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butanoic acid oxime</td>
<td>Carc. 2, H351</td>
<td>-</td>
<td>- Repr. 2, H361d</td>
<td>- Repr. 2, H361f</td>
</tr>
<tr>
<td>2-ethylhexanoic acid, zirconium salt</td>
<td>-</td>
<td>-</td>
<td>(Unborn child) (oral)</td>
<td>(fertility) (oral)</td>
</tr>
</tbody>
</table>

Seveso Directive
This product is controlled under the Seveso Directive

Danger criteria

| Category |
|----------------------|---------------------|
| P5c: Flammable liquids 2 and 3 not falling under P5a or P5b |
| 6: Flammable (R10) |

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms :
ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the international Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3 H226</td>
<td>On basis of test data</td>
</tr>
</tbody>
</table>
Full text of abbreviated H.

Statements

H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H312 Harmful in contact with skin
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness
H351 Suspected of causing cancer
H361 fd (Oral) Suspected of damaging fertility if swallowed. Suspected of damaging the unborn child if swallowed

Full text of classifications

[CLP/GHS]

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) – Category 4
Asp. Tox. 1, H304 ASPIRATION HAZARD – Category 1
Carc. 2 H351 CARCINOGENICITY – Category 2
EUH066 Repeated exposure may cause skin dryness and cracking
Eye Dam. 1 H318 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1
Flam. Liq. 3, H226 FLAMMABLE LIQUIDS – Category 3
Repr. 2, H361fd (oral) TOXIC TO REPRODUCTION (Fertility and Unborn child) (Oral)
Skin Sens. 1, H317 SKIN SENSITIZATION – Category 1
STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (Narcotic effects) – Category 3

History

Date of Issue/date of revision 9/8/18
Date of previous issue January 2015
Prepared by – Intumescent Systems Ltd

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.