

# APPLICATION DATA SHEET



**ENVIROGRAF®**

AP042-HW04/S-03-2019

Product Number: 42

HW04/S Undercoat White Spirit Based

## **Description:**

HW04/S White is a flexible protective coating for use over HW01/F intumescent coating

## **Coverage:**

Approximately 17m<sup>2</sup> per litre depending on the number of coats applied.

## **Preparation and Application:**

All surfaces should be clean, dry and free from contamination, with no loose particles.

Stir well before application. May be applied using brush or roller. The result is dependent on the condition of the substrate and temperature of application. Do not thin and do not use over polystyrene. Touch dry in 4 – 6 hours. Re-coatable in 16 to 24 hours at 20°C.

## **Tools and Storage:**

Clean tools and spillages immediately with white spirit.

Keep containers in a dry, cool, well ventilated space away from heat. Containers must be kept tightly closed and stored at a minimum temperature of 5°C and a maximum temperature of 35°C.

## **Precautions:**

- Ensure good ventilation during application and drying.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of soap and water or a recognised skin cleaner. Do not use solvent or thinners.
- If swallowed seek medical advice immediately.
- Keep out of the reach of children.

# SAFETY DATA SHEET



**ENVIROGRAF®**

HS042-HW04S-03-2019

Product Number: 42

HW04/S Undercoat White Spirit Based

**Description:**

HW04/S White is a flexible protective coating for use over HW01/F intumescent coating

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

- (Appendix 72) HW04/S

\*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.

**HEALTH & SAFETY INFORMATION SHEET**  
**APPENDIX 72**  
*HW04/S*

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**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

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**1.1 Product Identifier**

**Product name:** HW04/S

**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, Barrestone, 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)

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**2. HAZARDS IDENTIFICATION**

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**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:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response:** Not applicable. **Storage:** Not applicable.

**Disposal:** Dispose of contents & container in accordance with all local, regional, national & international regulations.

P102, 101, 210, 501

**Hazardous ingredients:** Not applicable

**Supplemental label elements:** Not applicable

**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**

**Product meets the criteria for PBT or vPvB:** This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**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: Mixture

Product/ingredient Name	CAS No.	% by weight	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	≥5.0 -≤10	H226, H336, H304 EUH066	[1]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	≥5.0 -≤10	H304, EUH066	[1]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-48-9	≥1.0 -≤5.0	H304, EUH066	[1]
2-ethylhexanoic acid, zirconium	22464-99-9	≥1.0 -≤5.0	H361d (oral)	[1]

See Section 16 for the full text of the H statements declared above

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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### 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 and seek immediate medical advice.

**Inhalation:** Remove to fresh air. Keep person 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 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, 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.

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## 5. FIRE-FIGHTING MEASURES

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### 5.1 Extinguishing Media

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam

**Unsuitable extinguishing media:** High volume water jet.

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

**Hazards 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.

**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) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

Further information:

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 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

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## 7. HANDLING AND STORAGE

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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)

Product/ingredient name	Exposure limit values
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	<b>EU OEL (Europe).</b> TWA: 1200 mg/m <b>EH40/2005 WELs (United Kingdom (UK), 8/2018)</b> STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures:** 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

Product/ingredient name	Type	Exposure	Value	Population	Effects
<b>Hydrocarbons, C9 -C11</b> n-alkalines, isoalkanes cyclics, <2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term inhalation	871 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term inhalation	185 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	125 mg/kg bw/day	Consumers	Systemic
2-ethylhexanoic acid, zirconium salt	DNEL	Long term Oral	2.5 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Dermal	3.25 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	6.49 mg/kg bw/day	Workers	Systemic

## PNECs

Not available.

### 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:** Safety glasses with side shields. Use eye protection according to EN166

#### 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 of 2 or higher (breakthrough time greater than 30 minutes according to EN374) is recommended.

**Gloves:** For prolonged or repeated handling, use the following type of 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Liquid
<b>Colour</b>	: Various
<b>Odour</b>	: Hydrocarbon [slight]
<b>Odour threshold</b>	: Not available
<b>pH</b>	: Not available
<b>Melting/freezing point</b>	: May start to solidify at the following temperature: 0°C (32°F). This is based on data for the following ingredient: Water. Weighted average: -41.39°C
<b>Initial boiling point and boiling range</b>	: 145°C
<b>Flash point</b>	: Closed cup: 40°C
<b>Evaporation rate</b>	: 0.04 (Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics) compared with butyl acetate

<b>Material supports combustion</b>	: Yes
<b>Flammability (solid, gas)</b>	: Liquid
<b>Upper/lower flammability or explosive limits</b>	: Greatest known range: Lower 0.6% Upper 7% (Hydrocarbons C10-C13 n-alkanes, isoalkanes, cyclics, <2% aromatics)
<b>Vapour pressure</b>	: Highest known value: 3.2 kPa (23.8mm Hg) (at 20°C)(water) Weighted average: 1.07kPa (8.03mm Hg) (at 20°C)
<b>Vapour density</b>	: Highest known value: 4.5 (Air = 1) (Distillates (petroleum), hydrotreated light)
<b>Relative density</b>	: 1.51
<b>Solubility(ies)</b>	: Insoluble in the following materials: cold water
<b>Partition coefficient: n-octanol/ water</b>	: Not applicable
<b>Auto-ignition temperature</b>	: Lowest known value: >220°C (>428°F) (Distillates (petroleum), hydrotreated light)
<b>Decomposition temperature</b>	: Stable under recommended storage and handling conditions (see Section 7)
<b>Viscosity</b>	: Kinematic (room temperature): >4cm <sup>2</sup> /s Kinematic (40°C): >2.1cm <sup>2</sup> /s
<b>Viscosity</b>	: 60 - 100 s (ISO 6mm)
<b>Explosive properties</b>	: Product does not present an explosion hazard
<b>Oxidising properties</b>	: Product does not present an oxidising hazard

## 9.2 Other information

No additional information.

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reaction will not occur
<b>10.4 Conditions to avoid</b>	: When exposed to high temperature may produce hazardous decomposition products. Refer to protective measures listed in Sections 7 & 8
<b>10.5 Incompatible materials</b>	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
<b>10.6 Hazardous decomposition products</b>	: Depending on conditions, decomposition products may include the following materials: metal oxide/oxides

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 Dermal	Rat	>5000 mg/kg	-
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 Oral	Rat	>5000mg/kg	-
	LC50 Dermal	Rat	>5000mg/kg	-
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% Aromatics	LD50 Oral	Rat	>5000mg/kg	-
	LC50 Dermal	Rabbit	>5000mg/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Oral	Rat	>6g/kg	-
	LC50 Dermal	Rabbit	>5g/kg	-
	LD50 Oral	Rat	>5g/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself

#### Acute toxicity estimates

Route	ATE value
Not available	

#### Irritation/Corrosion

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself

**Eyes** : There are no data available on the mixture itself

**Respiratory** : There are no data available on the mixture itself

#### Sensitisation

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself

**Respiratory** : There are no data available on the mixture itself



**Mutagenicity****Conclusion/Summary** : There are no data available on the mixture itself**Carcinogenicity****Conclusion/Summary** : There are no data available on the mixture itself**Reproductive toxicity****Conclusion/Summary** : There are no data available on the mixture itself**Teratogenicity****Conclusion/Summary** : There are no data available on the mixture itself**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	Not applicable	Narcotic effects

**Specific target organ toxicity (repeated exposure)**

Not available

**Aspiration hazard**

Product / ingredients name	Result
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD – Category 1
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD – Category 1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% Aromatics	ASPIRATION HAZARD – Category 1

**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

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapour concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics <2% aromatics	LC50>1000mg/l	Algae	72 hours
2-ethylhexanoic acid, zirconium salt	Acute LC50>1000mg/l	Fish	96 hours

**Conclusion/Summary** : There are no data available on the mixture itself

### 12.2 Persistence and degradability:

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics <2% aromatics	-	80% - Readily – 28 days	-	-
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics <2% aromatics	OECD 301F Ready Biodegradability - Manometric Respirometry Test	80% - Readily – 28 days		

**Conclusion/Summary** : Not available

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated light	-	-	Readily
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics <2% aromatics	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics <2% aromatics	-	10 to 2500	High
2-butanone oxime	0.63	5.01	Low

### 12.4 Mobility in soil

**Soil/water partition Coefficient (Koc)** : Not available

**Mobility** : Not available

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

### 12.6 Other Adverse Effects

No known significant effects or critical hazards.

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## 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)

Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

## 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	European waste catalogue (EWC)
Container	15 01 04 metallic packaging

**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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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## 14. TRANSPORT INFORMATION

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	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN1263	UN1263	UN1263	UN1263
<b>14.2 proper shipping name</b>	PAINT	PAINT	PAINT	PAINT
<b>14.3 Transport hazard class(es)</b>	3	3	3	3
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 environmental hazards</b>	No	No	No	No
<b>Marine pollutant substances</b>	Not applicable	Not applicable	Not applicable	Not applicable

### Additional information

**ADR/RID** : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**Tunnel code:** (D/E)

**ADN**: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**IMDG**: This class 3 viscous liquid is not subject to regulation in packagings up to 30 L according to 2.2.3.1.5.1.

**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

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## 15. REGULATORY INFORMATION

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### 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** : Not applicable

**on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

#### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

Not listed

#### **VOC for Ready-for-Use Mixture**

: IIA/e. Interior/exterior trim varnishes & cladding paints for wood & metal.  
EU Limit values: 300g/l (2010)  
This product contains a maximum of 300g/l VOC

### **Seveso Directive**

This product is controlled under the Seveso Directive

### **Danger criteria**

<b>Category</b>
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

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

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## **16. OTHER INFORMATION**

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### **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]**

<b>Classification</b>	<b>Justification</b>
Flam. Liq. 3 H226	On basis of test data

### **Full text of abbreviated H.**

#### **Statements**

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H336	May cause drowsiness or dizziness
H331d	Suspected of causing cancer
EUH066	Repeated exposure may cause skin dryness or cracking.

### **Full text of classifications**

#### **[CLP/GHS]**

Asp. Tox. 1, H304	ASPIRATION HAZARD – Category 1
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS – Category 3
Respr. 2	REPRODUCTIVE TOXICITY - Category 2
STOT SE 3, H335	SKIN SENSITIZATION – Category 1A
	SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (Narcotic effects) – Category 3

**Further information**                      Consult technician data sheet

*The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent UK REACH Regulations. The product should not be used for purposes other than those shown without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current EU and UK legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.*



Product Number: 42

HW04/S Undercoat White Spirit Based

**Description:**

HW04/S White is a flexible protective coating for use over HW01/F intumescent coating

**Coverage:**

Approximately 17m<sup>2</sup> per litre depending on the number of coats applied

**VOC Content:**

High VOC content: 25 – 50%

EU limit value for this product (Cat A/d): 400g/l (2007) / 300g/l (2010)

This product contains max 300g/l VOC

**Ordering references:**

HW04/S + size required (available in 1 litre, 2.5 litre and 5 litre containers)