

**MATERIAL SAFETY DATA SHEET**  
**according to 91/155 EC**

**1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY**

Trade name : K-Pex 3  
Intended use : 1-component bitumen paint  
Manufacturer/Supplier : Holland Tools BV  
Adress : Van Heekstraat 7  
Postal code/Town : 3125BN Schiedam  
Country : Nederland  
Telephone number : 010-2480640  
Emergency telephone number : 112

**2. COMPOSITION/INFORMATION ON COMPONENTS**

Inert bitumen in aliphatic hydrocarbon.

Chem. name	Concentration	Symb.	R-phrases	CAS-nummer
White Spirit	38 - 40 %		10	64742-82-1
Bitumen	60 - 62 %	Xn	40/21	64742-93-4

**3. HAZARDS IDENTIFICATION**

R-10: Flammable.

R-40/21: Harmful: possible risk of irreversible effects in contact with skin.

**4. FIRST AID MEASURES**

**General**

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Unconsciousness: lateral position - call a physician.

**Inhalation**

Take the casualty into the fresh air and keep warm.

Irregular breathing/no breathing: artificial respiration. Call a physician.

**Eye contact**

Flush with plenty of water ( 10 - 15 min. )

Call a physician.

**Skin contact**

Wash away with soap and water and rinse.

Do not use solvents or thinners.

**Ingestion**

Call a doctor.

Keep at rest.

Do not induce vomiting.

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## **5. FIRE-FIGHTING MEASURES**

### **Extinguishing media - suitable**

Alcohol resistant foam, CO<sub>2</sub>-powders, water spray.

### **Extinguishing media - NOT suitable**

Water Jet.

### **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged.**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### **Protective equipment**

Appropriate breathing apparatus may be required.

### **Additional information**

Cool endangered containers with water in case of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Remove ignition sources. Provide for sufficient ventilation. Refer to protective measures listed in sections 7 and 8.

### **Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with the local regulations.

### **Methods for cleaning up/collecting**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations ( see section 13 ). Clean preferably with a detergent; avoid use of solvents.

## **7. HANDLING AND STORAGE**

### **Information for safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

### **Information about protection against explosions and fires**

Vapours are heavier than air and may spread along floors. Vapours may form explosives mixtures with air.

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing. No sparking tools should be used.

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### **Requirments to be met by storerooms and containers**

Electrical equipment should be protected to the appropriate standard. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **Information about separation of incompatible products**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

### **Further information about storage conditions**

Always keep in containers of same material as the original one. Avoid heating and direct sunlight. Keep containers dry and cool.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **Additional information about engineering measures**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protections must be worn.

### **Components with critical values that require monitoring at the workplace ( exposure limits )**

Chemical specification	MAC-TGG (1)		MAC-C (2)	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
White spirit ( Stoddard solvent )	100	575		

1= Threshold Limit Value

2= Short Term Exposure Limit ( max. 15 min. )

### **Personal protective equipment**

#### **Respiratory equipment:**

Take breathing protection measures ( see also instructions to avoid accidents ).

#### **Skin protection:**

Use protective clothes.

After washing hands replace lost skin fat by fat containing skin creams.

#### **Eye protection:**

Use safety glasses.

#### **Body protection:**

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Description</b>	<b>Value</b>
Form	: liquid
Flashpoint	: > 32° C ( Abel CC )
Viscosity	: 180 - 200 sec. DIN-cup 4 mm. ( 20° C )
Density	: 0,90 - 0,93 g/cm <sup>3</sup> ( 20° C )
Lower explosive limits	: 0,6 vol%
Solvent-separation test	: not applicable
Odeur	: characteristic
Colour	: black

## **10. STABILITY AND REACTIVITY**

### **Conditions to avoid:**

Stable under recommended storage and handling conditions ( see section 7 )

### **Materials to avoid:**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### **Dangerous decomposition products:**

Cracking op PVC starts above 80° C.

## **11. TOXICOLOGICAL INFORMATION**

### **Experience on practice:**

There are no data available on the preparation itself.

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible.

Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes.

Eye contact: irritation.

### **Additional toxicological information:**

The product was classified in toxilological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations ( 88/37/EEC ).

## **12. ECOLOGICAL INFORMATION**

There are no data available on the preparation itself. Do not empty into water or drains. Should it do so, the local water authority should be contact immediately.

## **13. DISPOSAL CONSIDERATIONS**

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Waste materials should be regarded as controlled wastes and should be disposed of in accordance with the relevant regulations. Do not allow waste to enter drains.

#### **14. TRANSPORT INFORMATION**

##### **Landtransport ADR/VLG**

Class : 3  
Number : 31c  
Proper shipping name : paint  
Tremcard : 3

##### **Maritime transport IMDG**

Class : 3  
UN-nr.. : 1999  
Proper shipping name : liquid bitumen, contents white spirit  
Tremcard : 3 + M.P. - mark  
Marine Pollutant : yes  
EmS-number : 3 - 05  
MFAG-table : 310 / 313

##### **Air transport ICAO**

Class : 3  
UN-nr.. : 1999  
Proper shipping name : liquid bitumen, contents white spirit  
Tremcard : 3

**Packaging group** : III

#### **15. REGULATORY INFORMATION**

##### **Classification according to EEC directives:**

Danger symbol: Xn ( Harmfull )

Contains : white spirit/bitumen

R-phrases : R-10: Flammable.  
R-40/21: Harmful: possible risk of irreversible effects in contact with skin.

S-phrases : S-51: Use only in well-ventilated ares.  
S-2: Keep out of the reach of children.  
S-23: Do not breathe vapour/spray.  
S-24: Avoid contact with skin.  
S-36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

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## **16. OTHER INFORMATION**

The content of this safety data sheet corresponds to our present acknowledge and complies with the domestic and EG-legislation. The working condition existing at the user ' s plant are out of our knowing and control. The user is responsible for keeping and observing of all necessary legal regulations. This safety data sheet describes the safety requirments of our products and is no quarantee fot the product qualities.

These data are based on our present knowledge. However, they shall not constitute a quarantee for any specific product features and shall not establish a legally valid contractual relationship.