

# SAFETY DATA SHEET Prefere 4410

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Product name Prefere 4410

Part no. 90000600, 90000601, 90000603, 90000604, 90000608, 90000609, 90000610

Applications ADHESIVE FOR THE WOOD INDUSTRY

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC no.	CAS no.	Content	Symbol	R-phrases
Urea formaldehyde polymer			90-100 %	-	
Formaldehyde%	200-001-8	50-00-0	<0.8 %	Т	R-23/24/25, 34, 43, 40

#### See section 16 for explanations of R-phrases

Composition comments Harmful components are listed according to guideline for safety data sheets.

Other components, not classified as harmful, are indicated by a hyphen (-) . FORMALDEHYDE: Conc. 0,2-1%: Xi, R-43. Given for solution 2:1 in water.

## 3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

### 4. FIRST AID MEASURES

General SYMPTOMS AND EFFECTS

Accidents and over exposure to powder/dust from this product may cause irritation to

eyes and to the respiratory system.

Accidents and over-exposure to this product may cause irritation by liquid/fumes in the

eyes, liquid/fumes on the skin and by inhalation of fumes.

Symptoms by exposure of liquid/fumes in the eyes are pain, tears and impaired vision. Symptoms by inhalation of powder/dust are coughing and difficulties with breathing.

Symptoms by inhalation of fumes are upper respiratory irritation.

Symptoms of exposure to skin and mucous membranes are irritation and discoloration.

GENERAL ADVICE CONCERNING FIRST AID

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Keep affected person under observation. Get medical attention if necessary or contact emergency centre.

**Inhalation** Fresh air.

**Ingestion** If the affected person is awake, give water or other drink to flush the mouth and to

dilute chemicals that have been swallowed. Contact doctor/hospital for continued

treatment or transport to hospital.

**Skin** Wash skin with soap and water. Remove contaminated clothing. If any signs of

damage/irritation to the skin, contact doctor or hospital.

Eyes Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for

at least 15 minutes. Contact doctor/hospital for continued treatment or transport to

hospital.

#### 5. FIRE FIGHTING MEASURES

chemicals

**Specific hazards**Dust could form explosive mixture with air.

**Hazardous combustion products** Common combustion products.

Protective measures in the event of

fire

6.

Fire personnel exposed of gases from the product is recommended to use respiratory protection. Avoid skin contact/inhalation of dust/vapours. (Also see section 8).

# **ACCIDENTAL RELEASE MEASURES**

**Personal protection** Wear necessary protective equipment. See section 8.

**Environmental protection** Limit the leakage field. Block up contaminated area. Runoff or release to sewer,

waterway or ground is forbidden. The product is soluble in water.

**Spill clean-up methods**Collect in containers and seal securely. Remove containers and flush area with water.

Inform Authorities if large amounts are involved. For disposal methods see section 13.

#### 7. HANDLING AND STORAGE

Usage precautions Avoid spilling, skin and eye contact. @@@Unngå innånding av støv.@@@ Provide

sufficient ventilation. Eye wash facilities should be available when handling this product.

**Usage description** Read and follow manufacturer's recommendations.

Storage precautions Keep dry. in closed containeres

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name CAS no. Reference LT Exp 8 Hrs ST Exp 15 Date

Min

Formaldehyde ...% 50-00-0 MEL. 2 ppm 2 ppm

OES. 10 mg/m3
OES. 4 mg/m3

Ingredient information MEL = Maximum Exposure Limit. OES = Occupational Exposure Standard.

**Protective equipment** 

Total inhalable dust

Respirable dust





**Process conditions** Eye wash facilities should be available when handling this product.

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**Ventilation** Provide adequate general and local exhaust ventilation.

Respirators Respiratory protection must be used if air concentration exceeds acceptable level.

Recommended filter: Combination filter: Gas cartridge (organic substances). Gas

cartridge (acid gases). Dust filter P2 (for fine dust).

**Protective gloves**Use chemical resistant gloves that comply with acceptable standard. Suitable material:

Polyvinyl chloride (PVC). Rubber (natural or latex). Neoprene.

In the selection of protective equipment, the user must ensure that the equipment complies with the relevant standard. If there is any doubt the user should show this data sheet to the supplier of the equipment to ensure that the correct equipment is

available to potential users.

**Eye protection** Use approved safety goggles or face shield.

Other protection Wear appropriate clothing to prevent any possibility of skin contact.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Powder, dust.

Colour White Yellowish

**Odour** Formaldehyde.

Physical data comments For technical data and specifications; see technical data sheet.

Solubility description Soluble in water.

pH-value, diluted solution 7,0-8,0 Concentration %M 2:1

Flash point (°C) > 100 Method Setaflash closed cup

#### 10. STABILITY AND REACTIVITY

Stability The product is stable at the conditions of handling and storage stated in the technical

data sheet.

**Hazardous decomposition** 

products

Unlikely under normal industrial use.

# 11. TOXICOLOGICAL INFORMATION

**Sensitization** Formaldehyde is classified as a recognised allergen by skin contact.

**Health hazards, general**In the industry irritating properties represent the main hazard.

Inhalation Dust may irritate respiratory system. Gas or vapour is harmful on prolonged exposure

or in high concentrations.

**Ingestion** May cause discomfort.

**Skin** May cause sensitisation by skin contact. Prolonged or repeated exposure may cause

severe irritation.

Eyes Irritating to eyes.

Medical considerations FORMALDEHYDE: Formaldehyde is classified as a category 3 carcinogen. In animal

experiments carcinogenic effects have been demonstrated only at very high dose

levels. Such effects have not been demonstrated in man.

COMPONENT: Formaldehyde ...%

Toxic dose - LD50: 800 mg/kg (oral rat)

Carcinogenicity IARC Int. Agency for Cancer Research. NTP Carcinogens (DHHS).

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Not regarded as dangerous for the environment under current legislation.

**Mobility** Soluble in water.

Bioaccumulative potential No bioaccumulation expected.

**Persistence and degradability**Urea formaldehyde polymer: Slowly but not readily biodegradable.

Formaldehyde: Readily biodegradable (BOD5/COD: 0.68).

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods**Disposal should take place according to national and local regulations. Confirm

disposal procedures with local authorities.

Cured resin is regarded as not hazardous waste. Material safety data sheet for cured

resin is available.

Waste class EWC-code: 08 04 09.

EWC-code will depend on the use of this product.

Contaminated packaging Empty packaging as much as possible. Drained packaging should be recycled if

possible.

#### 14. TRANSPORT INFORMATION

**ROAD TRANSPORT (ADR):** 

ADR class Not dangerous according to ADR/RID/IMDG/IATA.

#### 15. REGULATORY INFORMATION

Label for supply



Contains Formaldehyde ...%

**Risk phrases** R-43 May cause sensitization by skin contact.

Safety phrases S-22 Do not breathe dust.

S-24 Avoid contact with skin. S-37 Wear suitable gloves.

**UK regulatory references**Occopational Exposure Standard.

EU directives Dangerous Substances Directive 67\548. Dangerous Preparations Directive

1999/45/EEC. Safety data sheet directive 91/155. Directive 2001/58. Directive 91/689.

Directive 94/904.

#### 16. OTHER INFORMATION

**Explanations of R-phrases in** 

Section 2

R-23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R-34 Causes burns. R-43 May cause sensitization by skin contact. R-40 Limited evidence of a

carcinogenic effect.

#### \* Information revised since previous SDS version

User notes:

NOTE:

The classification of this product as irritating for supply is consistent with the concentration of formaldehyde analysed by traditional volumetric techniques. This method includes the addition of water to the adhesive, so that the classification is relevant to the risk also when the resin is used.

An alternative method, approved by the UK Authorities, involves the measurement of formaldehyde gas emitted from the powder resin. By this method, very low concentrations of formaldehyde are analysed. Accordingly, the resin in the powder state, is not classified as a health hazard when this alternative method is used.

The classification and labelling of the resin will therefore differ, depending upon the analytical approach employed.

Customers should not therefore make a commercial preference, based upon the different approaches employed for classifying the products.

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Signature ERIC ZHANG

**Disclaimer** The information contained herein is based on the present state of our knowledge and is

intended to describe our products from the point of view of safety requirements. It

should not therefore be construed as guaranteeing specific properties.