



SAFETY DATA SHEET

Prefere 4152

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Prefere 4152

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

Identified uses Industrial/Professional Use: Adhesive. Woodworking industry

1.3. Details of the supplier of the safety data sheet

Supplier TS Resins
 Alyn Works,
 Denbigh Road,
 Mold,
 CH7 1BF
 01352 757 657
 tech@tsresins.co.uk

1.4. Emergency telephone number

Emergency telephone 01865 407333 (International +44 1865 407333)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

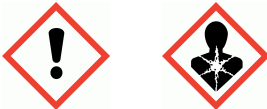
Physical hazards Not Classified

Health hazards Acute Tox. 4 - H332 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H332 Harmful if inhaled.
 H317 May cause an allergic skin reaction.
 H341 Suspected of causing genetic defects.
 H350 May cause cancer.

Preferre 4152

Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains formaldehyde, methanol

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

formaldehyde		0 - 3.5%
CAS number: 50-00-0	EC number: 200-001-8	REACH registration number: 01-2119488953-20-XXXX
Classification		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 2 - H330		
Skin Corr. 1B - H314		
Skin Sens. 1A - H317		
Muta. 2 - H341		
Carc. 1B - H350		
STOT SE 3 - H335		
methanol		<1%
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
Classification		
Flam. Liq. 2 - H225		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		

The full text for all hazard statements is displayed in Section 16.

Prefere 4152

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Remove affected person from source of contamination. Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Loosen tight clothing such as collar, tie or belt. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Development of symptoms may be delayed for 24 to 48 hours.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. Wash clothing and clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing.
Protection of first aiders	No action shall be taken without appropriate training or involving any personal risk. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Vapours irritate the respiratory system. Symptoms following overexposure may include the following: Respiratory system irritation. Respiratory tract Prolonged contact may cause redness and/or tearing.
Ingestion	No known chronic or acute health risks. Symptoms following overexposure may include the following: No specific health hazards known.
Skin contact	May cause sensitisation by skin contact. Symptoms following overexposure may include the following: Irritation. Redness.
Eye contact	No significant hazard at normal ambient temperatures. Symptoms following overexposure may include the following: No specific symptoms known.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Development of symptoms may be delayed for 24 to 48 hours.
Specific treatments	No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use foam, carbon dioxide, dry powder or water fog to extinguish. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Prefere 4152

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO ₂). Carbon monoxide (CO). Oxides of nitrogen.
5.3. Advice for firefighters	
Protective actions during firefighting	Evacuate area. No action shall be taken without appropriate training or involving any personal risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Do not touch or walk into spilled material. Avoid breathing vapour/spray. Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use protective equipment appropriate for surrounding materials.
For emergency responders	Wear protective clothing as described in Section 8 of this safety data sheet. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Small Spillages: Stop leak if safe to do so. Move containers from spillage area. Absorb spillage with sand or other inert absorbent. Large Spillages: Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain and absorb spillage with sand, earth or other non-combustible material. The contaminated absorbent may pose the same hazard as the spilled material. For waste disposal, see Section 13.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing. Avoid breathing gas, fume, vapours or spray. Use only in well-ventilated areas. If ventilation is inadequate, suitable respiratory protection must be worn. Keep only in the original container. Keep container tightly sealed when not in use. Product residues retained in emptied containers can be hazardous. Do not reuse empty containers.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. For personal protection, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep container tightly sealed when not in use. Use appropriate containment to avoid environmental contamination. Store away from incompatible materials (see Section 10). Keep away from food, drink and animal feeding stuffs.
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7.3. Specific end use(s)

Prefere 4152

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
Usage description	Not available.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

formaldehyde

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

DNEL

Formaldehyde

Workers - Inhalation; Short term systemic effects: 1 ppm

Workers - Inhalation; Long term local effects: 0.5 mg/m³

Workers - Inhalation; Short term local effects: 0.75 mg/m³

Workers - Inhalation; Long term systemic effects: 0.5 mg/m³

Workers - Dermal; Long term systemic effects: 240 mg/kg/day

Workers - Dermal; Long term local effects: 0.037 mg/cm²

Methanol.

Workers - Inhalation; Short term systemic effects: 260 mg/m³

Workers - Inhalation; Short term local effects: 260 mg/m³

Workers - Inhalation; Long term local effects: 260 mg/m³

Workers - Inhalation; Long term systemic effects: 260 mg/m³

Workers - Dermal; Short term systemic effects: 40 mg/kg/day

Workers - Dermal; Long term systemic effects: 40 mg/kg/day

PNEC

Formaldehyde

- Water; 4.7 mg/l

- Fresh water; 0.47 mg/l

- marine water; 0.47 mg/l

- Sediment (Freshwater); 2.44 mg/kg

- Sediment (Marinewater); 2.44 mg/kg

- Soil; 0.21 mg/kg

- STP; 0.19 mg/l

Methanol.

- Water; 1540 mg/l

- Fresh water; 20.8 mg/l

- marine water; 2.08 mg/l

- Soil; 3.18 ug/kg

- STP; 100 mg/l

- Sediment (Freshwater); 77 mg/kg

- Sediment (Marinewater); 7.7 mg/kg

8.2. Exposure controls

Protective equipment



Prefere 4152

Appropriate engineering controls	Provide adequate ventilation. Avoid contact with skin and eyes. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands thoroughly after handling.
Eye/face protection	The following protection should be worn: Chemical splash goggles and face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Wear protective gloves made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Gas filter, type A2. Gas filter, type AX.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless. White.
Odour	Formaldehyde Slight.
pH	pH (concentrated solution): 8.0 - 9.0
Initial boiling point and range	>100°C/>212°F
Flash point	> 100°C Closed cup.
Relative density	1.280 - 1.310 @ 25°C
Solubility(ies)	Slightly soluble in water.
Viscosity	1000 - 2200 mPa s @ 25°C
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid	No specific test data are available.
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10.5. Incompatible materials

Materials to avoid	No specific test data are available.
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Prefere 4152

10.6. Hazardous decomposition products

Hazardous decomposition products Under normal conditions of storage and use, no hazardous reactions will occur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 6,835.44

Acute toxicity - inhalation

ATE inhalation (gases ppm) 2,857.14

ATE inhalation (vapours mg/l) 600.0

Toxicological information on ingredients.

formaldehyde

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 640.0

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 270.0

Species Rabbit

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV) 463.0

Species Rat

ATE inhalation (gases ppm) 100.0

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Known human carcinogen.

Prefere 4152

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish

Formaldehyde
 LC₅₀, 96 hours: 6.7 mg/l, Marinewater fish, morone saxatilis
 LC₅₀, 96 hours: 24.1 mg/l, Pimephales promelas (Fat-head Minnow), Freshwater fish
 Methanol.
 LC₅₀, 96 hours: 15400 mg/l, Freshwater fish, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates

Formaldehyde
 EC₅₀, 48 hours: 5.8 mg/l, Daphnia magna
 Methanol.
 EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants

Methanol.
 EC₅₀, 96 hours: 22000 mg/l, Selenastrum capricornutum, Freshwater algae
 Formaldehyde
 EC₅₀, 72 hours: 4.89 mg/l, Freshwater algae, Scenedesmus subspicatus

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential Formaldehyde log Pow: 0.35, Methanol. log Pow: -0.77,

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Prefere 4152

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

Inventories

REACH

SECTION 16: Other information

Revision date	16/06/2020
Revision	05
Supersedes date	24/11/2015
SDS number	4656
Hazard statements in full	H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H370 Causes damage to organs .

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.