SAFETY DATA SHEET
IRABOND 9924 A

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

1.1. Product identifier
Product name  IRABOND 9924 A

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

1.3. Details of the supplier of the safety data sheet
Supplier  ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
customerservice.shannon@itwpp.com

1.4. Emergency telephone number
Emergency telephone  +44(0)1235 239 670 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)

Physical hazards  Flam. Liq. 2 - H225

Health hazards  Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341

Environmental hazards  Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms

Signal word  Danger

Hazard statements  H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.
**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapour/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.

**Supplementary precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

### 2.3. Other hazards

**SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>2-METHOXY-1-METHYLETHYL ACETATE</th>
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<tr>
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## IRABOND 9924 A

### ZINC OXIDE

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<td>M factor (Chronic) = 1</td>
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</table>

**Classification**
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

### BUTAN-2-OL

| CAS number: 78-92-2 | EC number: 201-158-5 |

**Classification**
- Flam. Liq. 3 - H226
- Eye Irrit. 2 - H319
- STOT SE 3 - H335, H336

### PHENOL

| CAS number: 108-95-2 | EC number: 203-632-7 |

**Classification**
- Acute Tox. 3 - H301
- Acute Tox. 3 - H311
- Acute Tox. 3 - H331
- Skin Corr. 1B - H314
- Eye Dam. 1 - H318
- Muta. 2 - H341
- STOT RE 2 - H373

### METHANOL

| CAS number: 67-56-1 | EC number: 200-659-6 |

**Classification**
- Flam. Liq. 2 - H225
- Acute Tox. 3 - H301
- Acute Tox. 3 - H311
- Acute Tox. 3 - H331
- STOT SE 1 - H370

### ETHYL ACETATE

| CAS number: 141-78-6 | EC number: 205-500-4 |

**Classification**
- Flam. Liq. 2 - H225
- Eye Irrit. 2 - H319
- STOT SE 3 - H336
IRABOND 9924 A

**ISOBUTYL METHYL KETONE**

CAS number: 108-10-1  EC number: 203-550-1

Classification

Flam. Liq. 2 - H225
Acute Tox. 4 - H332
Eye Irrit. 2 - H319
STOT SE 3 - H335

<1%

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

**SECTION 4: First aid measures**

4.1. Description of first aid measures

**General information**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Keep affected person away from heat, sparks and flames.

**Inhalation**

Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention.

**Ingestion**

Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth thoroughly with water. Get medical attention immediately.

**Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Get medical attention immediately.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea. Irritation of nose, throat and airway.

**Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting. Drowsiness, dizziness, disorientation, vertigo.

**Skin contact**

Causes skin irritation. Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

Irritation of eyes and mucous membranes.

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.

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

**Suitable extinguishing media**

Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. Foam.

5.2. Special hazards arising from the substance or mixture
IRABOND 9924 A

Specific hazards
Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Special protective equipment for firefighters
Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion-proof electrical equipment. Avoid spilling. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. If ventilation is inadequate, suitable respiratory protection must be worn.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Keep container tightly closed, in a cool, well ventilated place. Keep only in the original container. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits
2-METHOXY-1-METHYLETHYL ACETATE
Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 274 mg/m³(Sk)
Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 548 mg/m³(Sk)

ETHANOL
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³
Short-term exposure limit (15-minute): WEL

BUTAN-2-OL
IRABOND 9924 A

Long-term exposure limit (8-hour TWA): WEL 100 ppm 308 mg/m³
Short-term exposure limit (15-minute): WEL 150 ppm 462 mg/m³

PHENOL
Long-term exposure limit (8-hour TWA): WEL 2 ppm(Sk)
Short-term exposure limit (15-minute): WEL

METHANOL
Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 266 mg/m³(Sk)
Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 333 mg/m³(Sk)

ETHYL ACETATE
Long-term exposure limit (8-hour TWA): WEL 200 ppm
Short-term exposure limit (15-minute): WEL 400 ppm

ISOBUTYL METHYL KETONE
Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 208 mg/m³(Sk)
Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 416 mg/m³(Sk)

WEL = Workplace Exposure Limit

Ingredient comments

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Use explosion-proof general and local exhaust ventilation.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Neoprene. Wear protective gloves made of the following material: Nitrile rubber. Wear protective gloves made of the following material: Butyl rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures
Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product. When using do not eat, drink or smoke.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Appearance**: Liquid.
- **Colour**: Red.
- **Odour**: Solvent.
- **Flash point**: 20°C Setaflash closed cup.
- **Upper/lower flammability or explosive limits**: Lower flammable/explosive limit: 1.3% (V) Upper flammable/explosive limit: 36.5% (V)
- **Relative density**: 1.06
- **Solubility(ies)**: Insoluble in water.
- **Viscosity**: Dynamic >1000 mPa s @ 25°C

9.2. Other information

- **Volatile organic compound**: This product contains a maximum VOC content of 922 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

- **Reactivity**: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

- **Stability**: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

- **Possibility of hazardous reactions**: Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

- **Conditions to avoid**: Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

- **Materials to avoid**: Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

- **Hazardous decomposition products**: Carbon dioxide (CO2). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity - dermal**: ATE dermal (mg/kg) 5,172.41

- **General information**: Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Known or suspected mutagen.

- **Inhalation**: May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

- **Ingestion**: Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

- **Skin contact**: This product is strongly irritating.
IRABOND 9924 A

Eye contact
The product is irritating to eyes and skin.

SECTION 12: Ecological information

Ecotoxicity
Dangerous for the environment. Toxic to aquatic life with long lasting effects.

12.1. Toxicity
Toxicity
No data available.

Ecological information on ingredients.

ETHANOL

Acute aquatic toxicity
Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 42mg/L (24hr) mg/l, Daphnia magna

ZINC OXIDE

Acute aquatic toxicity
LE(C)₅₀
0.1 < L(E)C50 ≤ 1
M factor (Acute) 1

CYCLOHEXANE

Acute aquatic toxicity
LE(C)₅₀
0.1 < L(E)C50 ≤ 1
M factor (Acute) 1

12.2. Persistence and degradability

Persistence and degradability
There are no data on the degradability of this product.

Ecological information on ingredients.

ISOBUTYL METHYL KETONE

Persistence and degradability
MIBK - BOD-5=1.94-2.06g oxygen/g

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil
Mobility
The product is insoluble in water.

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
### IRABOND 9924 A

#### Other adverse effects
Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information**
When handling waste, the safety precautions applying to handling of the product should be considered. Dangerous for the environment. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods**
Empty containers must not be punctured or incinerated because of the risk of an explosion. Waste is classified as hazardous waste.

**Waste class**
08 04 09

### SECTION 14: Transport information

#### 14.1. UN number

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#### 14.2. UN proper shipping name

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#### 14.3. Transport hazard class(es)

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**Transport labels**

#### 14.4. Packing group

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#### 14.5. Environmental hazards
IRABOND 9924 A

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

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<th>F-E, S-E</th>
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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

EU legislation


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

<table>
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<tr>
<th>General Information</th>
<th>Only trained personnel should use this material.</th>
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Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

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.