

ITW Performance Polymers

SAFETY DATA SHEET IRATHANE P255EP

1. Identification

Product identifier

Product name IRATHANE P255EP

Recommended use of the chemical and restrictions on use

Application coating Apply by trowel

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

Emergency telephone number

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

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H332 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT RE 2 - H373

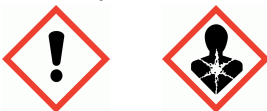
Environmental hazards Aquatic Chronic 3 - H412

Human health

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Persons susceptible to allergic reactions should not handle this product. Persons with impaired lung function should not handle this product..

Label elements

Hazard symbols



Signal word

Danger

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Hazard statements	<p>H317 May cause an allergic skin reaction.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
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>P260 Do not breathe vapor/ spray.</p> <p>P261 Avoid breathing vapor/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P284 In case of inadequate ventilation wear respiratory 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 center/ doctor if you feel unwell.</p> <p>P314 Get medical advice/ attention 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>P342+P311 If experiencing respiratory symptoms: Call a poison center/ doctor.</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>
Contains	<p>DICHLOROMETHANE, 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE), DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</p>
Other hazards	

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

ALPHA-HYDRO-OMEGA-HYDROXYPOLY(OXY-1,4-BUTANEDIYL)	30-60%
CAS number: 25190-06-1	
Classification Aquatic Chronic 3 - H412	
DICHLOROMETHANE	10-30%
CAS number: 75-09-2	
Classification Carc. 2 - H351	

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4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)	5-10%
CAS number: 5124-30-1	
Classification	
Acute Tox. 3 - H331	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
2,6-DITERTIARYBUTYL-PARA-CRESOL	1-5%
CAS number: 128-37-0	
M factor (Chronic) = 1	
Classification	
Aquatic Chronic 1 - H410	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	1-5%
CAS number: 101-68-8	
Classification	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	
1-DODECANOL	<1%
CAS number: 112-53-8	
M factor (Acute) = 1	
Classification	
Eye Irrit. 2A - H319	
Aquatic Acute 1 - H400	
Aquatic Chronic 2 - H411	

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

4. First-aid measures

Description of first aid measures

General information

Avoid inhalation of vapors and contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

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Ingestion	Try to induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

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 promptly if symptoms occur after washing.
Inhalation	May cause an asthma-like shortness of breath. Coughing, chest tightness, feeling of chest pressure.
Ingestion	May cause unconsciousness, blindness and possibly death.
Skin contact	Severe irritation. Allergic rash. This product is rapidly absorbed through the skin and may cause symptoms similar to those of ingestion.
Eye contact	May cause severe eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.
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Special hazards arising from the substance or mixture

Specific hazards	Avoid breathing fire gases or vapors.
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Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Do not breathe vapour.
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Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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Methods and material for containment and cleaning up

Methods for cleaning up	Absorb spillage with non-combustible, absorbent material. Transfer to a dry metal container, keeping it open for 48 hours. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.
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Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
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7. Handling and storage

Precautions for safe handling

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Usage precautions	Provide adequate ventilation. Use only in well-ventilated areas. Avoid inhalation of vapors/spray and contact with skin and eyes. Handle and open container with care. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).
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Specific end uses(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.
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8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

2,6-DITERTIARYBUTYL-PARA-CRESOL

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor
A4

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Ingredient comments	WEL = Workplace Exposure Limits
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Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Use approved respirator if air contamination is above an acceptable level. Ensure operatives are trained to minimize exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures.
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Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.
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Hand protection	Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. It is recommended that gloves are made of the following material: Butyl rubber. Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH). Neoprene. Frequent changes are recommended. The selected gloves should have a breakthrough time of at least 6 hours.
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Other skin and body protection	Wear apron or protective clothing in case of contact.
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Hygiene measures	Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Translucent.
Odor	Ether.
Melting point	8°C
Flash point	does not flash°C
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 13 Upper flammable/explosive limit: 33
Relative density	1.08 @ 20 °C°C
Solubility(ies)	Slightly soluble in water.
Other information	Not available.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.
Materials to avoid	Water, moisture.
Hazardous decomposition products	Does not decompose when used and stored as recommended.

11. Toxicological information

Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm)	11,949.38
ATE inhalation (vapours mg/l)	49.84

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ATE inhalation (dusts/mists mg/l)	8.19
General information	Limited evidence of a carcinogenic effect.
Inhalation	Toxic by inhalation. Irritating to respiratory system. May cause sensitisation by inhalation.
Skin Contact	Irritating to skin. May cause sensitisation by skin contact. May cause sensitization or allergic reactions in sensitive individuals.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	Limited evidence of a carcinogenic effect. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Persons susceptible to allergic reactions should not handle this product. Persons with impaired lung function should not handle this product..
Route of exposure	Inhalation Ingestion. Skin absorption

12. Ecological information

Ecotoxicity	Avoid release to the environment.
Toxicity	Not considered toxic to fish.
<u>Persistence and degradability</u>	
Persistence and degradability	There are no data on the degradability of this product.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	No data available on bioaccumulation.
<u>Mobility in soil</u>	
Mobility	Do not discharge into drains or watercourses or onto the ground.
<u>Other adverse effects</u>	
Other adverse effects	Not available.

13. Disposal considerations

Waste treatment methods

General information	When handling waste, the safety precautions applying to handling of the product should be considered.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class	08 04 99

14. Transport information

UN Number

UN No. (International)	Not applicable.
UN No. (TDG)	2810
UN No. (IMDG)	2810
UN No. (ICAO)	2810
UN No. (DOT)	2810

IRATHANE P255EP**UN proper shipping name**

Proper shipping name (International)	Not applicable.
Proper shipping name (TDG)	TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, 4, 4'-METHYLENEDI(CYCLOHEXYL ISOCYCNATE))
Proper shipping name (IMDG)	TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, 4, 4'-METHYLENEDI(CYCLOHEXYL ISOCYCNATE))
Proper shipping name (ICAO)	TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, 4, 4'-METHYLENEDI(CYCLOHEXYL ISOCYCNATE))
Proper shipping name (DOT)	TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, 4, 4'-METHYLENEDI(CYCLOHEXYL ISOCYCNATE))

Transport hazard class(es)

TDG class	6.1
TDG label(s)	6.1
IMDG Class	6.1
ICAO class/division	6.1

Transport labels**Packing group**

TDG Packing Group	III
IMDG packing group	III
ICAO packing group	III
DOT packing group	III

Special precautions for user

Not applicable.

EmS	F-A, S-A
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
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15. Regulatory information**16. Other information**

Revision date	2/19/2021
Revision	3
Supersedes date	4/4/2018

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Hazard statements in full

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
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.
H412 Harmful 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.