Performance Polymers

SAFETY DATA SHEET IRATHANE P255EP

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

1.1. Product identifier

Product name IRATHANE P255EP

UFI: HG10-F0J8-S005-2K0S

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

Identified uses coating Apply by trowel

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 Not Classified

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

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..

Danger

2.2. Label elements

Hazard pictograms





Signal word

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Hazard statements H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Supplemental label

information

EUH204 Contains isocyanates. May produce an allergic reaction.

Contains DICHLOROMETHANE, 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE),

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Supplementary precautionary

statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapour/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P312 Call a POISON CENTRE/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ALPHA-HYDRO-OMEGA-HYDROXYPOLY(OXY-1,4-BUTANEDIYL)

30-60%

DO ITAINEDITE,

CAS number: 25190-06-1

Classification

Aquatic Chronic 3 - H412

DICHLOROMETHANE 10-30%

CAS number: 75-09-2 EC number: 200-838-9

Classification

Carc. 2 - H351

4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

5-10%

CAS number: 5124-30-1 EC number: 225-863-2

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 EC number: 202-966-0

Classification

Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - 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. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

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 Avoid inhalation of vapours 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.

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 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.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards Avoid breathing fire gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. 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.

6.2. 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.

6.3. 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 labelled with

correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Use only in well-ventilated areas. Avoid inhalation of

vapours/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.

7.2. 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).

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

DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 350 mg/m3(Sk) Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 1060 mg/m3(Sk)

4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3(Sen) Short-term exposure limit (15-minute): WEL 0.07 mg/m3(Sen)

2,6-DITERTIARYBUTYL-PARA-CRESOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3(Sen) Short-term exposure limit (15-minute): WEL 0.07 mg/m3(Sen)

WEL = Workplace Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limits

DICHLOROMETHANE (CAS: 75-09-2)

DNEL Workers - Inhalation; Long term systemic effects: 353 mg/m³

Workers - Inhalation; Short term systemic effects: 706 mg/m³ Workers - Dermal; Long term systemic effects: 12 mg/kg/day

4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE) (CAS: 5124-30-1)

DNEL Workers - Inhalation; Short term local effects: 0.6 mg/m³

Workers - Inhalation; Long term local effects: 0.3 mg/m³

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

DNEL Workers - Inhalation; Long term local effects: 0.05 mg/m³

Workers - Inhalation; Short term local effects: 0.1 mg/m³

8.2. Exposure controls

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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 minimise exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures.

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 European Standard EN166.

Hand protection

Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with European Standard EN374. 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.

Other skin and body protection

Wear apron or protective clothing in case of contact.

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 'CE'-marked.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Translucent.

Odour 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.

9.2. Other information

Other information Not available.

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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

Not available.

reactions

10.4. Conditions to avoid

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.

10.5. Incompatible materials

Materials to avoid Water, moisture.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm) 11,949.38

ATE inhalation (vapours mg/l) 49.84

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 sensitisation 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

SECTION 12: Ecological information

Ecotoxicity Avoid release to the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility Do not discharge into drains or watercourses or onto the ground.

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

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.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Waste class 08 04 99

SECTION 14: Transport information

14.1. UN number

Not applicable.

UN No. (ADR/RID) 2810

UN No. (IMDG) 2810

UN No. (ICAO) 2810

14.2. UN proper shipping name

Not applicable.

Proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, 4, 4'-

(ADR/RID) 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 (ADN) TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, 4, 4'-

METHYLENEDI(CYCLOHEXYL ISOCYCNATE))

14.3. Transport hazard class(es)

ADR/RID class 6.1

ADR/RID label 6.1

IMDG class 6.1

ICAO class/division 6.1

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group

14.5. Environmental hazards

14.6. Special precautions for user

Not applicable.

EmS F-A, S-A

Emergency Action Code 2X

Hazard Identification Number 60

(ADR/RID)

Tunnel restriction code (E)

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

EU legislation 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

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 19/02/2021

Revision 3

Supersedes date 04/04/2018

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.