

SAFETY DATA SHEET IRATHANE P-155HS RESIN

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

1.1. Product identifier

Product name IRATHANE P-155HS RESIN

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

Identified usesTwo-component, isocyanate-based sealant.

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 mail@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. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1

- H317 STOT SE 3 - H335

Environmental hazards Not Classified

2.2. Label elements

Pictogram





Signal word Danger

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

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

H335 May cause respiratory irritation.

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Precautionary statements P261 Avoid breathing vapour/ spray.

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

Supplemental label

information

EUH204 Contains isocyanates. May produce an allergic reaction.

Contains 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

Supplementary precautionary

statements

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

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

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

P312 Call a POISON CENTER/ doctor 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.

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

P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

2.3. Other hazards

Contains isocyanates. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

30-60%

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove affected person from source of contamination. 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.

Ingestion Remove affected person from source of contamination. Get medical attention immediately.

Skin contact Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get

medical attention.

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Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Continue to rinse for at least 15 minutes. 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.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

bustion

Reacts with water.

products

for firefighters

5.3. Advice for firefighters

Special protective equipment

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 Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination.

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.

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

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Good personal

hygiene procedures should be implemented.

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. Keep away

from heat, sparks and open flame. 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

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)

WEL = Workplace Exposure Limit

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

DNELWorkers - Inhalation; Short term local effects: 0.6 mg/m³
Workers - Inhalation; Long term local effects: 0.3 mg/m³

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients.

Eye/face protection Wear chemical splash goggles. 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. 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. To protect hands from chemicals, gloves

should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

2734.........

Other skin and body

protection

Wear apron or protective clothing in case of contact.

Hygiene measures Provide eyewash station and safety shower. When using do not eat, drink or smoke. 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. 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: Organic vapour filter. 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 Clear liquid.

Odour Slight.

pH (diluted solution): 7 @5%

Melting point Not determined.

Initial boiling point and range 148.8°C @

Flash point 198.8°C PMCC (Pensky-Martens closed cup).

Evaporation rate Not determined.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 1.03 @ °C

Auto-ignition temperature Not determined.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 0 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Alcohols, glycols. Alkalis. Amines.

Reacts strongly with water.

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

May polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid contact with the following materials: Strong oxidising agents. Never add

water directly to this product as it may cause a vigorous reaction or boiling.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong acids. Water, steam, water mixtures. Amines. Alcohols, glycols.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

General information

ATE inhalation (gases ppm) 2,160.49

1.54

ATE inhalation (vapours mg/l) 9.26

ATE inhalation (dusts/mists

mg/l)

The product contains small quantities of isocyanate. May cause respiratory allergy. May

cause respiratory system irritation.

Inhalation Vapour from this product may be hazardous by inhalation. Vapours may irritate

throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing. Prolonged inhalation of high concentrations may damage respiratory system. Repeated exposure may cause chronic upper respiratory irritation.

Ingestion May cause discomfort if swallowed. Gastrointestinal symptoms, including upset stomach.

Skin contact Repeated exposure may cause skin dryness or cracking. Liquid may irritate skin. May cause

sensitisation or allergic reactions in sensitive individuals.

Eye contact Risk of serious damage to eyes. Severe irritation, burning and tearing.

Acute and chronic health

hazards

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. May cause sensitisation or allergic reactions in sensitive individuals.

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SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product has poor water-solubility.

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 known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

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

local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 2206 UN No. (IMDG) 2206

UN No. (ICAO) 2206

14.2. UN proper shipping name

Proper shipping name

ISOCYANATES, TOXIC, N.O.S. (4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE))

(ADR/RID)

Proper shipping name (IMDG) ISOCYANATES, TOXIC, N.O.S. (4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE))

Proper shipping name (ICAO) ISOCYANATES, TOXIC, N.O.S. (4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE))

Proper shipping name (ADN) ISOCYANATES, TOXIC, N.O.S. (4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE))

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 III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-A

Emergency Action Code 2X

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (E)

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

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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

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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.

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

H335 May cause respiratory irritation.

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.