



**SAFETY DATA SHEET
IRATHANE P-155HS RESIN**

1. Identification

Product identifier

Product name IRATHANE P-155HS RESIN

Recommended use of the chemical and restrictions on use

Application Two-component, isocyanate-based sealant.

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

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. 3 - H331 Skin Irrit. 2 - H315 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards Not Classified

Label elements

Pictogram



Signal word

Danger

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

IRATHANE P-155HS RESIN

Precautionary statements	<p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</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>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>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</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>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
---------------------------------	---

Contains 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

Other hazards

Contains isocyanates. May produce an allergic reaction.

3. Composition/information on ingredients

Mixtures

4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)	30-60%
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	

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

4. First-aid measures

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.
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.

Most important symptoms and effects, both acute and delayed

IRATHANE P-155HS RESIN

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with carbon dioxide or dry powder.

Special hazards arising from the substance or mixture

Hazardous combustion products Reacts with water.

Advice for firefighters

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapors and contact with skin and eyes. Provide adequate ventilation.

Environmental precautions

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

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 labeled with correct contents and hazard symbol.

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

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid inhalation of vapors and spray/mists. Provide adequate ventilation. Good personal hygiene procedures should be implemented.

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).

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

IRATHANE P-155HS RESIN

Eye/face protection	Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.
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 OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 8 hours.
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 vapor filter. Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Odor	Slight.
pH	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.
Vapor pressure	Not determined.
Vapor density	Not determined.
Relative density	1.03 @ °C
Auto-ignition temperature	Not determined.
Volatile organic compound	This product contains a maximum VOC content of 0 g/litre.

10. Stability and reactivity

Reactivity	The following materials may react with the product: Acids. Alcohols, glycols. Alkalis. Amines. Reacts strongly with water.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	May polymerize.

IRATHANE P-155HS RESIN

Conditions to avoid	Avoid heat. Avoid contact with the following materials: Strong oxidizing agents. Never add water directly to this product as it may cause a vigorous reaction or boiling.
Materials to avoid	Strong alkalis. Strong acids. Water, steam, water mixtures. Amines. Alcohols, glycols.
Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. Toxicological information

Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm) 2,160.49

ATE inhalation (vapours mg/l) 9.26

ATE inhalation (dusts/mists mg/l) 1.54

General information The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation.

Inhalation Vapor from this product may be hazardous by inhalation. Vapors 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 sensitization 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 sensitization or allergic reactions in sensitive individuals.

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.

Toxicity Not considered toxic to fish.

Persistence and degradability

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

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility The product has poor water-solubility.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

IRATHANE P-155HS RESIN

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, labeled with their contents.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number

UN No. (TDG)	2206
UN No. (IMDG)	2206
UN No. (ICAO)	2206
UN No. (DOT)	2206

UN proper shipping name

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

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

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-A, S-A

IRATHANE P-155HS RESIN

15. Regulatory information

16. Other information

Revision date	4/4/2018
Revision	4
Supersedes date	5/22/2017
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.