



SAFETY DATA SHEET
IRATHANE 2855A

1. Identification

Product identifier

Product name IRATHANE 2855A

Product number 2855A

Recommended use of the chemical and restrictions on use

Application coating

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. 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

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

Pictogram



Signal word

Danger

IRATHANE 2855A

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe vapor/ spray.
P261 Avoid breathing vapor/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
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.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
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.
P312 Call a poison center/ 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.
P333+P313 If skin irritation or rash 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.

Contains

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE, 4,4'-Methylenediphenyl diisocyanate, oligomers

Other hazards

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

3. Composition/information on ingredients

Mixtures

IRATHANE 2855A

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	60-100%
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	
ALPHA-HYDRO-OMEGA-HYDROXYPOLY(OXY-1,4-BUTANEDIYL)	10-30%
CAS number: 25190-06-1	
Classification	
Aquatic Chronic 3 - H412	
2,6-DITERTIARYBUTYL-PARA-CRESOL	1-5%
CAS number: 128-37-0	
M factor (Chronic) = 1	
Classification	
Aquatic Chronic 1 - H410	
4,4'-Methylenediphenyl diisocyanate, oligomers	<1%
CAS number: —	
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	

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.

IRATHANE 2855A

Ingestion	Give plenty of water to drink. Try to induce vomiting. Get medical attention. Show this Safety Data Sheet to the medical personnel.
Skin Contact	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. 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.
----------------------------	---

Indication of immediate medical attention and special treatment needed

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

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.
-------------------------------------	---

Special hazards arising from the substance or mixture

Specific hazards	Avoid breathing fire gases or vapors.
-------------------------	---------------------------------------

Advice for firefighters

Protective actions during firefighting	Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire.
---	---

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	Warn everybody of potential hazards and evacuate if necessary. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Do not breathe vapour. Avoid contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.
-----------------------------	--

Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
----------------------------------	---

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.
--------------------------------	---

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

IRATHANE 2855A

Usage precautions Use only in well-ventilated areas. Provide adequate ventilation. Open drum carefully as content may be under pressure. Avoid inhalation of vapors/spray and contact with skin and eyes. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. 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. 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

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.

Hand protection Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). 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 chemical protective suit.

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.

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: 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 Viscous liquid.

Color White.

Odor Slight.

Melting point 5°C

IRATHANE 2855A

Flash point	>200°C
Relative density	1.14 @ 20 °C°C
Solubility(ies)	Insoluble in water.
Viscosity	700-1100 mPa s @ 20°C
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.
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)	6,386.53
ATE inhalation (vapours mg/l)	15.61
ATE inhalation (dusts/mists mg/l)	2.13

Inhalation	Harmful by inhalation. May cause sensitisation by inhalation. Irritating to respiratory system.
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	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 entry	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.

IRATHANE 2855A**Bioaccumulative potential****Bio-Accumulative Potential** No data available on bioaccumulation.**Mobility in soil****Mobility** Do not discharge into drains or watercourses or onto the ground.**Other adverse effects****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****General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).**UN Number**

No information required.

UN proper shipping name

No information required.

Transport hazard class(es)**Transport labels**

No transport warning sign required.

Packing group

No information required.

Environmental hazards**Environmentally Hazardous Substance**

No.

Special precautions for user

No information required.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.**15. Regulatory information****16. Other information****Revision date** 4/4/2018**Revision** 7

IRATHANE 2855A

Supersedes date 4/29/2016

Hazard statements in full

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- 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.
- H410 Very 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.