

Revised: 30/9/2024

SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: RT323 PART B (CURING AGENT)
- UFI: C110-00W4-T008-MTQR
- Product Part Number: RT323 PART B (CURING AGENT)

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

- Use of the substance/mixture: Curing agent

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Resintech Ltd
- Address of Supplier: Unit 1-2 Horcott Industrial Estate
Fairford
Gloucestershire
GL7 4BX
UK
- Telephone: +44 (0)1285 712755
- Responsible Person: Alex Paton
- Email: Info@resintech.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0)1285712755 (Monday-Friday 8am-4.30pm)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

- CLP: Skin Sens. 1, Acute Tox. 4, Skin Corr. 1C, Repr. Cat. 1B, STOT SE 3, Aquatic Chronic 2

2.2 Label elements

- Signal Word: Danger
- Contains: Imidazole. TOFA, reaction products with TEPA

Hazard statements

- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H360D - May damage the unborn child.

SECTION 2: Hazards identification (....)**Precautionary statements**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

Supplemental Hazard information (EU)

EUH210 - Safety data sheet available on request.

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Substance not identified as having endocrine disrupting properties

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

	CAS Number	EC Number	REACH Registration Number	Categories	H Statements	Concentration
TOFA, reaction products with TEPA	68953-36-6	273-201-6	Not applicable	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 STOT SE 3	H315 H317 H319 H335	30 - 50%
ACN Adduct (TETA) reaction product of Acrylonitrile CAS: 107-13-1 and Triethylenetetramine CAS: 112-24-3	Not applicable	Not applicable	Not applicable	Skin Corr. 1C	H314	30 - 50%
Imidazole	288-32-4	206-019-2	01-2119485825-24-0000	Acute Tox. 4 Skin Corr. 1C Eye Dam. 1 Repr. Cat. 1B	H302 H314 H318 H360D	10 -30%
3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	112-57-2	203-986-2	Not applicable	Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Skin Sens. 1 Aquatic Chronic 2	H302 H312 H314 H317 H411	1 - 5%

SECTION 4: First aid measures**4.1 General**

- Use personal protective equipment as required.
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- Wash contaminated clothing before reuse.

SECTION 4: First aid measures (....)**Contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes

Contact with skin

After contact with skin, wash immediately with plenty of soap and water

Take off contaminated clothing and wash it before reuse.

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

Ingestion

Rinse mouth.

Give 200-300mls (half pint) water to drink

Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/attention.

Inhalation

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

Do not breathe vapours excessively

Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- In cases of severe exposure, allergic reaction in susceptible people may develop
- Prolonged skin or eye contact may cause chemical burns
- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
 - IF exposed or concerned: Call a POISON CENTER/doctor.
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SECTION 5: Firefighting measures**5.1 Extinguishing media**

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

- Decomposition products may include toxic and irritant fumes
- Nitrogen and carbon oxides may be formed

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
 - Prevent run off water from entering drains if possible
 - Wear Positive-Pressure Breathing Apparatus
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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing as per section 8
 - Wash thoroughly after dealing with spillage
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SECTION 6: Accidental release measures (....)

- Avoid contact with skin and eyes

6.2 Environmental precautions

- Avoid release to the environment.
- Absorb spillage in suitable inert material
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

6.3 Methods and material for containment and cleaning up

- Wear protective clothing as per section 8
- Absorb spillage in suitable inert material
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Wash thoroughly after dealing with spillage
- Collect spillage.

6.4 Reference to other sections

- Wear protective clothing as per section 8
 - See Section 11 - Toxicological Information
-

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Avoid release to the environment.
- Wear protective clothing as per section 8
- Take off contaminated clothing and wash it before reuse.
- In cases of severe exposure, allergic reaction in susceptible people may develop
- Do not eat, drink or smoke when using this product.
- After contact with skin, wash immediately with plenty of soap and water
- Wash hands and working surfaces thoroughly after handling.
- Use good personal hygiene practices
- Wash contaminated clothing before reuse.
- Dispose of contents/container to an authorised waste collection point

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed, in a cool, well ventilated place
- Keep cool. Protect from sunlight.
- Keep away from food, drink and animal feedingstuffs
- Store locked up.

7.3 Specific end use(s)

- See Section 1.2
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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Imidazole**

DNEL (Industry; inhalational, long term systemic effects): 10.6 mg/m³

DNEL (Industry; dermal, long term systemic effects): 1.5 mg/kg bw/day

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection (....)

- This Safety Data Sheet does not constitute a workplace risk assessment
- In case of inadequate ventilation wear respiratory protection.
- Eyewash bottles should be available
- Wear suitable protective clothing, eye/face protection and gloves
- Gloves should be chemical resistant and comply with an approved standard such as EN 455 or EN 374 and made from latex, nitrile or neoprene. Protective clothing should be based on the results of an exposure assessment. A polymer laminate apron is recommended in most cases. Eye and face protection should be chemical resistant and comply with an approved standard such as EN 166. If a respirator is needed following an exposure assessment it should conform to EN 136 or EN 143 (P3)
- Check with personal protection equipment manufacturer
- Use good personal hygiene practices
- Do not eat, drink or smoke when using this product.
- Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance: Liquid
- Colour: Amber
- Odour: Amine odour, Pungent odour
- Boiling Point/Range: >200°C
- Flammability: Flash point: >100 °C (CC)
- pH: Immiscible with water
- Solubility in water: Insoluble in water
- Density: Density (water=1): 1.01

9.2 Other information

- No information available

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Reference to other sections

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- No hazard expected under normal conditions of use
- Protect from frost
- Protect from sunlight.
- Keep away from heat

10.5 Incompatible materials

SECTION 10: Stability and reactivity (....)

- Strong acids
- Strong oxidising agent

10.6 Hazardous decomposition products

- No hazardous decomposition products known
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SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Estimated LD₅₀ (oral) (ATE) : 1847.063 mg/kg
Estimated LD₅₀ (dermal) (ATE) : 53140.1 mg/kg
Estimated LD₅₀ (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

ACN Adduct (TETA) reaction product of Acrylonitrile CAS:107-13-1 and Triethylenetetramine CAS:112-24-3

Estimated LD₅₀ (dermal) (ATE) : >1,000 mg/kg
Estimated LD₅₀ (oral) (ATE) : >1,000 mg/kg

Imidazole

LD₅₀ (oral, rat): 970 mg/kg

TOFA, reaction products with TEPA

LD₅₀ (oral, rat): 1,600 mg/kg
LD₅₀ (skin, rat): 1,700 mg/kg

3,6,9-triazaundecamethylenediamine; tetraethylenepentamine

Estimated LD₅₀ (dermal) (ATE) : >1,000 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on the available data, the classification criteria are not met

Carcinogenicity

Based on the available data, the classification criteria are not met

Reproductive toxicity

May damage the unborn child.

STOT (specific target organ toxicity) - single exposure

SECTION 11: Toxicological information (....)

Based on the available data, the classification criteria are not met

STOT (specific target organ toxicity) - repeated exposure

Based on the available data, the classification criteria are not met

Aspiration hazard

Based on the available data, the classification criteria are not met

11.2 Information on other hazards

- No information available

SECTION 12: Ecological information**12.1 Toxicity****ACN Adduct (TETA) reaction product of Acrylonitrile CAS:107-13-1 and Triethylenetetramine CAS:112-24-3**

LC₅₀ (fish): >100 mg/l (96 hr)

Imidazole

EC₅₀ (Daphnia magna): 341.5 mg/l (48 hr)

IC₅₀ (algae): 63.7 mg/l (72 hr)

LC₅₀ (fish): 283.6 mg/l (96 hr)

PNEC (Fresh water): 0.13 mg/l

PNEC (intermittent): 1.3 mg/l

PNEC (Marine water): 0.013 mg/l

PNEC (STP): 10 mg/l

PNEC (Sediment; fresh water): 0.336 mg/kg

PNEC (Sediment; marine water): 0.0336 mg/kg

TOFA, reaction products with TEPA

LC₅₀ (fish): >100 mg/l (96 hr), Estimated Value

3,6,9-triazaundecamethylenediamine; tetraethylenepentamine

IC₅₀ (algae): 2 mg/l (72 hr)

EC₅₀ (daphnia): 24 mg/l (48 hr)

LC₅₀ (fish): 420 mg/l (96 hr)

12.2 Persistence and degradability

- Not readily biodegradable

12.3 Bioaccumulative potential

- Bioaccumulation is insignificant

12.4 Mobility in soil

- immiscible with water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Endocrine disrupting properties

SECTION 12: Ecological information (....)

- Substance not identified as having endocrine disrupting properties

12.7 Other adverse effects

- No information available
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
 - Wear protective clothing as per section 8
 - Dispose of contents/container to an authorised waste collection point
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SECTION 14: Transport information**14.1 UN number or ID number**

- UN No.: 1760

14.2 UN proper shipping name

- Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Imidazole mixture)

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- Presents no hazard to the environment

14.6 Special precautions for user

- IMDG EmS: F-A, S-B
- Tunnel Code: (E)
- Emergency Action Code: 2X

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable
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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- This Safety Data Sheet is provided in compliance with the Health and Safety at Work Act
- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

15.2 Chemical safety assessment

- This product is either exempt from REACH or does not meet the minimum volume threshold for a chemical safety assessment (CSA)
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SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H360D: May damage the unborn child.

Sections updated: 1.1, 8.2

This information relates only to the 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 themselves as to the suitability of such information for their own use.