Revised: 27/9/2024

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: RT157 PART B (CURING AGENT)
- UFI: HN10-J0QW-X00R-76T6
- Product Part Number: RT157 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, Skin Corr. 1B, Aquatic Chronic 3

2.2 Label elements

- Signal Word: Danger
- Contains: Reaction products of pentaerythritol, propoxylated and 1-chloro-2, 3-epoxypropane with hydrogen sulfide. benzyldimethylamine

Hazard statements

H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

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.
P302+P352 - IF ON SKIN: Wash with plenty of soap and 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.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313 - If skin irritation or rash occurs: 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
Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide	Not applicable	701-196-7	Not applicable	Skin Sens. 1B Aquatic Chronic 3	H317 H412	70 - 99%
N,N-Dimethylbenzylamine	103-83-3	203-149-1	Not applicable	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Aquatic Chronic 3	H226 H302 H312 H332 H314 H412	10 - 30%

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.

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.

Contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water

SECTION 4: First aid measures (....)

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

Ingestion

Do NOT induce vomiting.
If swallowed, rinse mouth with water (only if the person is conscious)
Immediately call a POISON CENTER or doctor/physician.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
- In cases of severe exposure, redness and irritation may develop
- Risk of serious damage to eyes

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

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
- Decomposition products may include oxides of nitrogen, sulphur and carbon

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

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
- 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

6.4 Reference to other sections

SECTION 6: Accidental release measures (....)

- 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
- Product may crystlise or seperate if exposed to cold temperatures for extended periods of time. If this occurs, the product should be warmed to 38-60°C for one hour. If the product is in a bulk form stir until clear.

7.3 Specific end use(s)

- See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3- epoxypropane with hydrogen sulfide

DNEL (Industry; inhalational, long term systemic effects): 22 mg/m³
DNEL (Industry; dermal, long term systemic effects): 2.7 mg/kg bw/day
DNEL (Consumer; inhalational, long term systemic effects): 6.52 mg/m³
DNEL (Consumer; dermal, long term systemic effects): 1.61 mg/kg bw/day
DNEL (Consumer; oral, long term systemic effects): 1.9 mg/kg bw/day

N,N-Dimethylbenzylamine

DNEL (Industry; inhalational, long term systemic effects): 7.4 mg/m³
DNEL (Industry; inhalational, short term systemic effects): 14.8 mg/m³
DNEL (Industry; dermal, long term systemic effects): 2.1 mg/kg bw/day
DNEL (Industry; dermal, short term systemic effects): 4.2 mg/kg bw/day
DNEL (Consumer; inhalational, long term systemic effects): 1.3 mg/m³
DNEL (Consumer; inhalational, short term systemic effects): 2.6 mg/m³
DNEL (Consumer; dermal, long term systemic effects): 0.8 mg/kg bw/day
DNEL (Consumer; dermal, short term systemic effects): 1.5 mg/kg bw/day
DNEL (Consumer; oral, long term systemic effects): 0.4 mg/kg bw/day
DNEL (Consumer; oral, short term systemic effects): 0.8 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 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: Colourless to yellow
- Odour: Amine odour, Sulphur odour
- Boiling Point/Range: ≥180°C
- Flammability: Flash point: ≥80°C °C (CC)
- pH: Not available
- Solubility in water: Partly soluble in water
- Density: Density (water=1): 1.12

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
- Keep away from static electricity
- Keep away from heat and sources of ignition

10.5 Incompatible materials

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

- Strong acids
- Strong oxidising agent

10.6 Hazardous decomposition products

- No hazardous decomposition products known

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Estimated LD_{50} (oral) (ATE) : 5000 mg/kg
Estimated LD_{50} (dermal) (ATE) : 11000 mg/kg
Estimated LD_{50} (inhalational) (ATE) : 110 mg/l/4hr (gas/vapour)

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3- epoxypropane with hydrogen sulfide

LD_{50} (oral, rat): 2,600 mg/kg
LD_{50} (dermal, rabbit): >10,200 mg/kg
LC_{50} (inhalation, rat): >0.1 mg/l/4h

N,N-Dimethylbenzylamine

LD_{50} (oral, rat): 265 mg/kg
LD_{50} (skin, rabbit): 1660 mg/kg
LC_{50} (inhalation, rat): 2.052 mg/l/4h

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

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

STOT (specific target organ toxicity) - single exposure

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

STOT (specific target organ toxicity) - repeated exposure

SECTION 11: Toxicological information (....)

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

Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3- epoxypropane with hydrogen sulfide

EC_{50} (Daphnia magna): 12 mg/l (48 hr)
LC_{50} (fish): 87 mg/l (96 hr)

PNEC (Fresh water):	0.07 mg/l
PNEC (intermittent):	0.12 mg/l
PNEC (Marine water):	0.007 mg/l
PNEC (STP):	0.01 mg/l
PNEC (Sediment; fresh water):	0.322 mg/kg
PNEC (Sediment; marine water):	0.0322 mg/kg

N,N-Dimethylbenzylamine

EC_{50} (Daphnia magna): 100 mg/l (48 hr)
IC_{50} (algae): 0.25 mg/l (72 hr)
LC_{50} (fish): 37.8 mg/l (96 hr)

PNEC (Fresh water):	0.0048 mg/l
PNEC (intermittent):	0.0134 mg/l
PNEC (Marine water):	0.00048 mg/l
PNEC (STP):	534 mg/l
PNEC (Sediment; fresh water):	0.071 mg/kg
PNEC (Sediment; marine water):	0.0071 mg/kg

12.2 Persistence and degradability

- Not readily biodegradable

12.3 Bioaccumulative potential

- Bioaccumulation is insignificant

12.4 Mobility in soil

- Partly soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Endocrine disrupting properties

- Substance not identified as having endocrine disrupting properties

12.7 Other adverse effects

SECTION 12: Ecological information (....)

- No information available

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

SECTION 14: Transport information

14.1 UN number or ID number

- UN No.: 2735

14.2 UN proper shipping name

- Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (Benzyldimethlmine solution)

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

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)

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid

SECTION 16: Other information (....)

and vapour. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H412: Harmful to aquatic life with long lasting effects.

Sections updated: 1.1, 8.2, 14.5

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.