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: RT350 PART A (RESIN)
- UFI: W520-K0V9-S00Q-689K
- Product Part Number: RT350 PART A (RESIN)

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

- Use of the substance/mixture: Resin

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 Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2

2.2 Label elements

- Signal Word: Warning
- Contains: Oxirane, 2-(chloromethyl)-, polymer with alpha-hydro- omega-hydroxypoly [oxy(methyl-1,2-ethanediyl]. Bis-[4-(2,3-epoxipropoxi)phenyl]propane

Hazard statements

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

SECTION 2: Hazards identification (....)

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 - Avoid breathing 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.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P501 - Dispose of contents/container to an authorised waste collection point

Supplemental Hazard information (EU)

EUH205 - Contains epoxy constituents. May produce an allergic reaction.
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
Oxirane, 2-(chloromethyl)-, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))	9072-62-2	618-635-2	Not applicable	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2	H315 H317 H319	50 - 70%
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3	216-823-5	01-2119456619-26-0000	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Aquatic Chronic 2	H315 H317 H319 H411	30 - 50%
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	112945-52-5	231-545-4	Not applicable	Substance with a work place exposure limit	Not applicable	1 - 5%
Aluminium oxide	1344-28-1	215-691-6	01-2119529248-35-0000	Substance with a work place exposure limit	Not applicable	<0.5%
Carbon Black	1333-86-4	215-609-9	01-2119384822-32-0000	Substance with a work place exposure limit	Not applicable	<0.5%

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.

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

If swallowed, rinse mouth with water (only if the person is conscious)
Give water or milk to drink
Get medical advice/attention if you feel unwell.

Inhalation

Remove patient to fresh air
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

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

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

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

- 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
- 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

Oxirane, 2-(chloromethyl)-, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))

DNEL (Industry; inhalational, long term systemic effects): 12.25 mg/m³
DNEL (Industry; dermal, long term systemic effects): 8.33 mg/kg bw/day
DNEL (Consumer; dermal, long term systemic effects): 3.571 mg/kg bw/day
DNEL (Consumer; oral, long term systemic effects): 0.75 mg/kg bw/day

bis-[4-(2,3-epoxipropoxi)phenyl]propane

DNEL (Industry; inhalational, long term systemic effects): 4.93 mg/m³
DNEL (Industry; dermal, long term systemic effects): 0.75 mg/kg bw/day
DNEL (Consumer; inhalational, long term systemic effects): 0.87 mg/m³
DNEL (Consumer; dermal, long term systemic effects): 0.0893 mg/kg bw/day
DNEL (Consumer; oral, long term systemic effects): 0.5 mg/kg bw/day

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

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

WEL (inhalable dust) (long term): 6 mg/m³ (UK)
WEL (respirable dust) (long term): 2.4 mg/m³ (UK)

Aluminium oxide

WEL (inhalable dust) (long term): 10 mg/m³ (UK)
WEL (respirable dust) (long term): 4 mg/m³ (UK)

Carbon Black

DNEL (Industry; inhalational, long term systemic effects): 1 mg/m³
DNEL (Consumer; inhalational, long term systemic effects): 0.06 mg/m³
WEL (inhalable dust): (TWA) 3 mg/m³ (BE), (TWA) 2 mg/m³ (CZ), (TWA) 3.5 mg/m³ (DK), (TWA) 3.5 mg/m³ (FI), (STEL) 7 mg/m³ (FI), (TWA) 3.5 mg/m³ (FR), (TWA) 3.5 mg/m³ (GR), (STEL) 7 mg/m³ (GR), (TWA) 3 mg/m³ (IE), (STEL) 15 mg/m³ (IE), (TWA) 3 mg/m³ (IT), (TWA) 3.5 mg/m³ (NO), (STEL) 7 mg/m³ (NO), (TWA) 4 mg/m³ (PL), (TWA) 3 mg/m³ (PT), (TWA) 2 mg/m³ (SK), (STEL) 10 mg/m³ (SK), (TWA) 3.5 mg/m³ (ES), (TWA) 3 mg/m³ (SE), (TWA) 3.5 mg/m³ (UK), (STEL) 7 mg/m³ (UK), (USA) TLV (TWA): 3 mg/m³

8.2 Exposure controls

- 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, viscous
- Colour: Black
- Odour: Characteristic odour
- Boiling Point/Range: >200°C
- Flammability: Flash point: >180 °C (CC)
- pH: Immiscible with water

SECTION 9: Physical and chemical properties (....)

- Solubility in water: Immiscible with water
- Density: Density (water=1): 1.21

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

10.5 Incompatible materials

- Reacts with amines
- Strong acids
- Strong alkalis
- 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) : >2000 mg/kg
Estimated LD_{50} (dermal) (ATE) : >4000 mg/kg
Estimated LD_{50} (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

Oxirane, 2-(chloromethyl)-, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))

LD_{50} (oral, rat): >3,500 mg/kg

bis-[4-(2,3-epoxipropoxi)phenyl]propane

LD_{50} (oral, rat): >15,000 mg/kg
LD_{50} (skin, rat): >23,000 mg/kg

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

LD_{50} (oral, rat): >5,000 mg/kg
LD_{50} (dermal, rabbit): >5,000 mg/kg

Aluminium oxide

SECTION 11: Toxicological information (....)

LD_{50} (oral, rat): >5,000 mg/kg
LC_{50} (inhalation, rat): 2.3 mg/l/4h

Carbon Black

LD_{50} (oral, rat): >2,000 mg/kg
LD_{50} (dermal, rabbit): >2,000 mg/kg
LC_{50} (inhalation, rat): (4h) >4.6 mg/m³

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

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

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

Oxirane, 2-(chloromethyl)-, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))

EC_{50} (Daphnia magna): >100 mg/l (48 hr)
LC_{50} (fish): >100 mg/l (96 hr)
PNEC (Fresh water): 0.006 mg/l

SECTION 12: Ecological information (....)

PNEC (intermittent): 0.018 mg/l
PNEC (Marine water): 0.0006 mg/l
PNEC (STP): 10 mg/l
PNEC (Sediment; fresh water): 0.996 mg/kg
PNEC (Sediment; marine water): 0.0996 mg/kg

bis-[4-(2,3-epoxipropoxi)phenyl]propane

EC_{50} (Daphnia magna): 1.8 mg/l (48 hr)
LC_{50} (fish): 2 mg/l (96 hr)
PNEC (Fresh water): 0.006 mg/l
PNEC (intermittent): 0.018 mg/l
PNEC (Marine water): 0.0006 mg/l
PNEC (Sediment; fresh water): 0.341 mg/kg
PNEC (Sediment; marine water): 0.0341 mg/kg
PNEC (Soil): 0.0647 mg/kg
PNEC (STP): 10 mg/l

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

LC_{50} (fish): >10,000 mg/l (96 hr)

Aluminium oxide

IC_{50} (algae): >100 mg/l (72 hr)
EC_{50} (daphnia): >100 mg/l (48 hr)
LC_{50} (fish): >100 mg/l (96 hr)

Carbon Black

EC_{50} (daphnia): >1,000 mg/l (48 hr)
LC_{50} (fish): >1,000 mg/l (96 hr)
PNEC (Fresh water): 50 mg/l

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

- Substance not identified as having endocrine disrupting properties

12.7 Other adverse effects

- 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.: 3082

14.2 UN proper shipping name

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi) phenyl]propane)

14.3 Transport hazard class(es)

- Hazard Class: 9

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- Marine Pollutant
- Environmentally hazardous

14.6 Special precautions for user

- IMDG EmS: F-A, S-F
- Tunnel Code: (E)
- Emergency Action Code: 3Z

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable

14.8 Transport Regulations

- Special Provisions Apply: (IATA: A197), (ADR: 375) These substances when transported in single or combination packages containing a net quantity per single or inner packaging of 5L or less for liquids or having a net weight per single or inner packaging of 5KG of less for solids, are not subject to any other provisions of these regulations provided the packages meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

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

SECTION 15: Regulatory information (....)

- 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:- H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.

Sections updated: 1.1, 4.2, 8.2, 14.8

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.