SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: RonaDeck Resin Bonded Steel Primer

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

- Use of the substance/mixture: Professional One Component Solvented Primer
- Use advised against: No specific uses advised against are identified

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Ronacrete Ltd
- Address of Supplier: Ronac House
  Flex Meadow, Harlow
  Essex, CM19 5TD
- Telephone: +44 (0) 1279 638700
- Email: technical@ronacrete.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1279 638700
  Monday to Friday between 8:00am and 5:00pm

SECTION 2: Hazards identification

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

2.1 Classification of the substance or mixture

- Physical hazards: H226 - Flammable liquid and vapour.
- Health hazards: H315 - Causes skin irritation.
  H317 - May cause an allergic skin reaction.
  H319 - Causes serious eye irritation.
  H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  H335 - May cause respiratory irritation.
  H336 - May cause drowsiness or dizziness.
  H351 - Suspected of causing cancer.
  H373 - May cause damage to organs through prolonged or repeated exposure.
- Environmental hazards: H411 - Toxic to aquatic life with long lasting effects.

SECTION 2: Hazards identification (....)

- CLP: Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3, STOT SE 3, Carc. 2, STOT RE 2, Aquatic Chronic 2

2.2 Label elements

- Signal Word: Danger

Hazard statements

Flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.
Contains isocyanates. May produce an allergic reaction.

Precautionary statements

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid release to the environment.

2.3 Other hazards

- Contains: Prepolymer based on diphenylmethane diisocyanate, p-toluenesulphonyl isocyanate
- In the EU, NO, IS, LI and GB: "As from 24 August 2023 adequate training is required before industrial or professional use."

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

PREPOLYMER BASED ON DIPHENYLMETHANE ISOCYANATE

CAS Number: 67815-87-6
EC Number: -
REACH Registration Number: -

SECTION 3: Composition/information on ingredients (....)

Concentration:	10 - 30%
Categories:	Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3, STOT RE 2
Symbols:	GHS07, GHS08
H Statements:	H315, H317, H319, H332, H334, H335, H373

Hydrocarbons, C9, aromatics

CAS Number:	128601-23-0
EC Number:	918-668-5
REACH Registration Number:	01-2119455851-35
Concentration:	10 - 30%
Categories:	STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; Flam. Liq. 3
Symbols:	GHS02, GHS07, GHS08, GHS09
H Statements:	H226, H304, H335, H336, H411

ISOCYANIC ACID,POLYMETHYLENEPOLYPHENYLENE ESTER

CAS Number:	9016-87-9
EC Number:	618-498-9
REACH Registration Number:	-
Concentration:	10 - 30%
Categories:	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2
Symbols:	GHS07, GHS08
H Statements:	H315, H317, H319, H332, H334, H335, H351, H373, EUH204

aluminium powder (stabalized)

CAS Number:	7429-90-5
EC Number:	231-072-3
REACH Registration Number:	-
Concentration:	10- 30%
Categories:	Flam. Sol. 1, Water-react. 2
Symbols:	GHS02
H Statements:	H228, H261

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC

CAS Number:	64742-95-6
EC Number:	265-199-0
REACH Registration Number:	01-2119486773-24
Concentration:	1 - 5%
Categories:	Asp. Tox. 1, Carc. 1B, Muta. Cat. 1B
Symbols:	GHS08
H Statements:	H304, H340, H350

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

SECTION 3: Composition/information on ingredients (....)

CAS Number:	64742-48-9
EC Number:	265-150-3
REACH Registration Number:	01-2119486659-16
Concentration:	1 - 5%
Categories:	Asp. Tox. 1, Carc. 1B, Muta. Cat. 1B
Symbols:	GHS08
H Statements:	H304, H340, H350

4,4'-methylenediphenyl diisocyanate

CAS Number:	101-68-8
EC Number:	202-966-0
REACH Registration Number:	01-2119457014-47
Concentration:	1 - 5%
Categories:	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2
Symbols:	GHS07, GHS08
H Statements:	EUH204, H315, H317, H319, H332, H334, H335, H351, H373

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate

CAS Number:	5873-54-1
EC Number:	227-534-9
REACH Registration Number:	01-2119480143-45
Concentration:	1 - 5%
Categories:	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2
Symbols:	GHS07, GHS08
H Statements:	EUH204, H315, H317, H319, H332, H334, H335, H351, H373

p-TOLUENESULPHONYL ISOCYANATE

CAS Number:	4083-64-1
EC Number:	223-810-8
REACH Registration Number:	01-2119980050-47
Concentration:	1 - 5%
Categories:	Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3
Symbols:	GHS07, GHS08
H Statements:	H315, H319, H334, H335

2,2'-METHYLENEDIPHENYL DIISOCYANATE

CAS Number:	2536-05-2
EC Number:	219-799-4
REACH Registration Number:	01-2119927323-43
Concentration:	≤1%
Categories:	Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Resp. Sens. 1, Carc. 2, STOT SE 3, STOT RE 2

SECTION 3: Composition/information on ingredients (....)

Symbols:	GHS07, GHS08
H Statements:	H315, H317, H319, H332, H334, H335, H351, H373

SECTION 4: First aid measures

4.1 Description of 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.
Get immediate medical advice/attention.
Seek medical attention if ill effects occur
Seek medical attention if irritation persists

Contact with skin

IF ON SKIN: Gently wash with plenty of soap and water.
Take off contaminated clothing and wash it before reuse.
Seek medical attention if ill effects occur
If skin irritation occurs: Get medical advice/attention.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious)
Do not induce vomiting
Never make an unconscious person vomit or drink fluids
If vomiting occurs turn patient on side
Get medical advice/attention if you feel unwell.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention if you feel unwell.
Seek medical advice if necessary

4.2 Most important symptoms and effects, both acute and delayed

- May cause dizziness, confusion, headache or stupor
- May cause dry throat
- May cause headache
- May cause nausea/vomiting
- May cause redness and irritation
- May cause sensitisation by inhalation and skin contact
- May cause shortness of breath
- Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
- If breathing is difficult, oxygen should be given by a trained person

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
- Do not use water jets
- Flammable

5.2 Special hazards arising from the substance or mixture

- Hazardous Products of Combustion: Nitrogen and carbon oxides may be formed, Cyanide compounds may be formed
- Reacts with water

5.3 Advice for firefighters

- Fight fire with normal precautions from a reasonable distance.
- Wear Positive-Pressure Breathing Apparatus
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid contact with water
- Do not allow product to come into contact with water or moisture
- Do not apply water to leaking containers
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Wash thoroughly after dealing with spillage
- Remove contaminated clothing
- Wear suitable protective clothing, eye/face protection

6.2 Environmental precautions

- Avoid release to the environment.
- Do not empty into drains
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Absorb spillage in suitable inert material
- Clean spill site with detergent; avoid using solvents
- Place in appropriate container
- Remove contaminated material to safe location for subsequent disposal
- Ventilate area

6.4 Reference to other sections

- See Section 8, 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

SECTION 7: Handling and storage (....)

- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after using this substance
- Wash contaminated clothing before reuse.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed, in a cool, well ventilated place
- Store in original packaging, in dry conditions.
- Keep away from water

7.3 Specific end use(s)

- See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure controls

Prepolymer based on diphenylmethane diisocyanate
CAS number: 67815-87-6
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3 (NCO)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3 (NCO)
Sen
.
Hydrocarbons, C9, aromatics
CAS number: 128601-23-0
DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Systemic Effects Long-term Exposure: 151 mg/m³
Worker – Dermal Systemic Effects Long-term Exposure: 12.5 mg/kg bw/day
.
Isocyanic acid, polymethylenepolyphenylene ester
CAS number: 9016-87-9
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3 (NCO)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3 (NCO)
Sen

DNEL according to Regulation (EC) No. 1907/2006:
Worker - Inhalation Acute local effects: 0.1 mg/m3
Worker - Inhalation Long-term local effects: 0.05 mg/m3
Worker - Inhalation Long-term systematic effects: 0.05 mg/m3
Worker - Dermal Acute systematic effects: 50 mg/kg/day
Worker - Dermal Acute local effects: 27.8 mg/kg/day

PNEC according to Regulation (EC) No. 1907/2006:
Fresh water: 1 mg/l
Marine water: 0.1 mg/
Intermittent release: 10 mg/l
Sewage treatment plant: 1 mg/l
Soil: 1 mg/kg

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

.
Aluminium powder (stabilized)
CAS number: 7429-90-5
DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Systemic Effects Long-term Exposure: 3.72 mg/m³
Worker – Inhalation Local Effects Long-term Exposure: 3.72 mg/m³

PNEC according to Regulation (EC) No. 1907/2006:
Sewage treatment plant: 20 mg/L
.
Solvent naphtha (petroleum), light aromatic
CAS number: 64742-95-6
DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Systemic Effects Long-term Exposure: 1.9 mg/m³
Worker – Inhalation Systemic Effects Acute Exposure: 1286.4 mg/m³
Worker – Inhalation Local Effects Long-term Exposure: 837.5 mg/m³
Worker – Inhalation Local Effects Acute Exposure: 1066.67 mg/m³
.
Naphtha (petroleum), hydrotreated heavy
CAS number: 64742-48-9
DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Systemic Effects Long-term Exposure: 1.9 mg/m³
Worker – Inhalation Systemic Effects Acute Exposure: 1286.4 mg/m³
Worker – Inhalation Local Effects Long-term Exposure: 837.5 mg/m³
Worker – Inhalation Local Effects Acute Exposure: 1066.67 mg/m³
.
4,4'-methylenediphenyl diisocyanate
CAS number: 101-68-8
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3 (NCO)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3 (NCO)
Sen

DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Local Effects Long-term Exposure: 50 µg/m³
Worker – Inhalation Local Effects Acute Exposure: 100 µg/m³

PNEC according to Regulation (EC) No. 1907/2006:
Freshwater: 3.7 µg/L
Intermittent releases (freshwater): 37 µg/L
Marine water: 370 ng/L
Sediment (freshwater): 11.7 mg/kg sediment dw
Sediment (marine water): 1.17 mg/kg sediment dw
Soil: 2.33 mg/kg soil dw
.
Diphenylmethane-2,4'-diisocyanate
CAS number: 5873-54-1
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3 (NCO)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3 (NCO)
Sen

DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Local Effects Long-term Exposure: 50 µg/m³
Worker – Inhalation Local Effects Acute Exposure: 100 µg/m³

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

PNEC according to Regulation (EC) No. 1907/2006:
Freshwater: 3.7 µg/L
Intermittent releases (freshwater): 37 µg/L
Marine water: 370 ng/L
Sediment (freshwater): 11.7 mg/kg sediment dw
Sediment (marine water): 1.17 mg/kg sediment dw
Soil: 2.33 mg/kg soil dw
.
p-toluenesulphonyl isocyanate
CAS number: 4083-64-1
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3 (NCO)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3 (NCO)
Sen

DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Local Effects Long-term Exposure: 3.24 mg/m³
Worker – Dermal Systemic Effects Long-term Exposure: 920 µg/kg bw/day

PNEC according to Regulation (EC) No. 1907/2006:
Freshwater: 30 µg/L
Intermittent releases (freshwater): 300 µg/L
Marine water: 3 µg/L
Sewage treatment plant: 400 µg/L
Sediment (freshwater): 172 µg/kg sediment dw
Sediment (marine water): 17.2 µg/kg sediment dw
Soil: 16.8 µg/kg soil dw
.
2,2'-methylenediphenyl diisocyanate
CAS number: 2536-05-2
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3 (NCO)
Short-term exposure limit (15-minute): WEL 0.07 mg/m3 (NCO)
Sen

DNEL according to Regulation (EC) No. 1907/2006:
Worker – Inhalation Local Effects Long-term Exposure: 50 µg/m³
Worker – Inhalation Local Effects Acute Exposure: 100 µg/m³

PNEC according to Regulation (EC) No. 1907/2006:
Freshwater: 3.7 µg/L
Intermittent releases (freshwater): 37 µg/L
Marine water: 370 ng/L
Sediment (freshwater): 11.7 mg/kg sediment dw
Sediment (marine water): 1.17 mg/kg sediment dw
Soil: 2.33 mg/kg soil dw
.
Abbreviations
bw = body weight
DNEL = derived no-effect level
dw = dry weight
NCO = isocyanate
PNEC = predicted no-effect concentration
Sen = sensitiser, substances which may cause occupational asthma
TWA = time weighted average
WEL = workplace exposure limit

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

.
EH40/2005 Workplace Exposure Limits: Medical supervision of all employees who come in contact with respiratory sensitisers is recommended. Personnel with a history of asthma-type conditions, bronchitis or skin sensitisation conditions should not work with MDI based products. The OELs listed do not apply to previously sensitised individuals. Sensitised individuals should be removed from any further exposure.
.

8.2 Precautionary measures

- Eye protection: Eyewash bottles should be available, Wear goggles giving complete eye protection
- Hand protection: Wear butyl rubber gloves, Fluorocarbon rubber gloves (Viton) EN 374, thickness ≥0.4mm, EN374
- Skin and body protection: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water, Wear suitable protective clothing
- Respiratory protection: Ensure adequate ventilation, In case of inadequate ventilation wear respiratory protection., Filer A2/P2
- Advise on protection against fire and explosion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

8.3 Environmental exposure controls

- Do not empty into drains; dispose of this material and its container in a safe way
- Store in a well-ventilated place. Keep container tightly closed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: liquid
- Colour: metallic grey
- Flammability: Flammable
- Flashpoint: 38°C Closed cup
- pH: not applicable
- Solubility in water: Insoluble in water
- Viscosity: Approx 175 secs BS B4 Cup at 20°C
- Specific Gravity: 1.08 - 1.12
- Lower explosive limit: 0.7% (in air)
- Upper explosive limit: 7% (in air)
- Boiling Point/Range: Approx 140°C
- Melting point - not known

9.2 Other information

- Volatile Organic Compound Content ≤380g/l

SECTION 10: Stability and reactivity

10.1 Reactivity

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

- Reacts with moist air or water

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- Carbon dioxide may be formed

10.4 Conditions to avoid

- Keep away from naked flames, incandescent or hot surfaces
- Keep away from moist air or water

10.5 Incompatible materials

- Materials to avoid: Strong oxidising agent

10.6 Hazardous decomposition products

- See Section 5.2

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin Irrit. 2 - Causes skin irritation.
Skin Sens. 1 - May cause an allergic skin reaction.
Eye Irrit. 2 - Causes serious eye irritation.
Resp. Sens. 1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 - Suspected of causing cancer.
STOT SE 3 - May cause respiratory irritation. May cause drowsiness or dizziness.
STOT RE 2 - May cause damage to organs through prolonged or repeated exposure.
.
Toxicological data for the components:
Hydrocarbons, C9, aromatics
CAS number: 128601-23-0
•Acute Toxicity - Oral: LD50 = 3492 mg/kg bw
Test species - Rat, male/female
•Acute Toxicity - Dermal: LD50 = >3160 mg/kg
Test species - Rabbit, male/female
Test guideline - OECD Guideline 402
•Acute Toxicity - Inhalation: LC50 = >6193 mg/m³
Test species - Rat, male/female
Test guideline - OECD Test Guideline 403
Test atmosphere - Vapour
Exposure duration - 4 hours
•Aspiration hazard = May be fatal if swallowed and enters airways.
•STOT SE - Inhalation = May cause respiratory irritation
•STOT SE - Inhalation = May cause drowsiness or dizziness
.
Isocyanic acid, polymethylenepolyphenylene ester
CAS number: 9016-87-9
•Acute Toxicity - Oral: LD50 = >10000 mg/kg bw
Test species - Rat
Test guideline - OECD Guideline 401
•Acute Toxicity - Dermal: LD50 = >9400 mg/kg

SECTION 11: Toxicological information (....)

Test species - Rabbit, male/female
Test guideline - OECD Guideline 402
•Acute Toxicity - Inhalation: LC50 = 0.49 mg/L
Test species - Rat, male/female
Test guideline - OECD Test Guideline 403
Test atmosphere - dust/mist
Exposure duration - 4 hours
•Irritation - Skin = irritating
Test species - Rabbit
Test guideline - OECD Guideline 404
•Irritation - Eyes = irritating (reversing within 7 days)
Test species - Rabbit
Test guideline - OECD Guideline 405
•Sensitisation - Skin = May cause sensitisation by skin contact
Test species - Guinea pig
Test guideline - OECD Guideline 406
•Sensitisation - Respiratory = May cause sensitisation by inhalation
Test species - Rat
•Carcinogenicity = carcinogenic
Test species - Rat, male/female
Application route - Inhalation
Exposure time - 24 months
Dose - 1 mg/m³
Frequency of treatment - 5 daily
Test guideline - OECD Guideline 453
•STOT SE - Inhalation = May cause respiratory irritation
•STOT RE - Inhalation = May cause damage to the respiratory tract through prolonged or repeated exposure
.
Solvent naphtha (petroleum), light aromatic
CAS number: 64742-95-6
•Acute Toxicity - Oral: LD50 = >5000 mg/kg bw
Test species - Rat, male/female
Test guideline - OECD Guideline 401
•Acute Toxicity - Dermal: LD50 = >2000 mg/kg bw
Test species - Rabbit, male/female
Test guideline - OECD Guideline 402 (under occlusive conditions)
•Acute Toxicity - Inhalation: LC50 = > 5610 mg/m²
Test species - Rat, male/female
Test guideline - OECD Guideline 403
Exposure duration - 4 hours
•Carcinogenicity - Inhalation: NOAEC = 9869 mg/m³
Test species - Rat
Study Duration - Chronic
•Carcinogenicity - Dermal: No adverse effect observed
.
Naphtha (petroleum), hydrotreated heavy
CAS number: 64742-48-9
•Acute Toxicity - Oral: LD50 = >5000 mg/kg bw
Test species - Rat, male/female
Test guideline - OECD Guideline 401
•Acute Toxicity - Dermal: LD50 = >2000 mg/kg bw
Test species - Rabbit, male/female
Test guideline - OECD Guideline 402

SECTION 11: Toxicological information (....)

•Acute Toxicity - Inhalation: LC50 = > 5610 mg/m²
Test species - Rat, male/female
Test guideline - OECD Guideline 403
Test atmosphere - Vapour
Exposure duration - 4 hours
•Aspiration Hazard = May be fatal if swallowed and enters airways
.
4,4'-methylenediphenyl diisocyanate
CAS number: 101-68-8
•Acute Toxicity - Oral: LD50 = > 2000 mg/kg bw
read-across based on grouping of substances (category approach)
•Acute Toxicity - Dermal: LD50 = >10000 mg/kg
Test species - Rabbit
•Acute Toxicity - Inhalation: LC50 = 431 mg/m³
Test species - Rat, male/female
Test guideline - OECD Guideline 403
Test atmosphere - Aerosol
Exposure duration - 4 hours
•Irritation - Skin = irritating
Test species - Rabbit
Test guideline - OECD Guideline 404
•Irritation - Eyes = irritating
Test species - Rabbit
Test guideline - OECD Guideline 405
•Sensitisation - Skin = may cause sensitisation
Test species - Guinea pig
Test guideline - OECD Guideline 406
•Sensitisation - Respiratory = may cause sensitisation
Test species - Guinea pig
Test guideline - OECD Guideline 406
•STOT SE - Inhalation = May cause respiratory irritation
•STOT RE - Inhalation = May cause damage to organs through prolonged or repeated exposure
.
Diphenylmethane-2,4'-diisocyanate
CAS number: 5873-54-1
•Acute Toxicity - Oral: LD50 = >2000 mg/kg bw
read-across based on grouping of substances (category approach)
•Acute Toxicity - Inhalation: LC50 = 431 mg/m³
Test species - Rat, male/female
Test guideline - OECD Test Guideline 403
Test atmosphere - Aerosol
Exposure duration - 4 hours
•Irritation - Skin = irritating
read-across based on grouping of substances (category approach)
•Irritation - Eyes = irritating
read-across based on grouping of substances (category approach)
•Sensitisation - Skin = May cause sensitisation by skin contact
read-across based on grouping of substances (category approach)
•Sensitisation - Respiratory = May cause sensitisation by inhalation
read-across based on grouping of substances (category approach)
•Carcinogenicity = Suspected of causing cancer by inhalation
•STOT SE - Inhalation = May cause respiratory irritation
•STOT RE - Inhalation = May cause damage to the respiratory tract through prolonged or repeated exposure

SECTION 11: Toxicological information (....)

.
p-toluenesulphonyl isocyanate
CAS number: 4083-64-1
•Acute Toxicity - Oral: LD50 = >5000 mg/kg bw
Test species - Rat, male/female
Test guideline - OECD Guideline 401
•Acute Toxicity - Dermal: LD50 = >2000 mg/kg bw
Test species - Rabbit, male/female
Test guideline - OECD Guideline 402
•Irritation - Skin = not irritating
Test species - Rabbit
Test guideline - OECD Guideline 404
•Irritation - Eyes = irritating
Test species - Rabbit
Test guideline - OECD Guideline 405
.
2,2'-methylenediphenyl diisocyanate
CAS number: 2536-05-2
•Acute Toxicity - Oral: LD50 = >2000 mg/kg bw
read-across based on grouping of substances (category approach)
•Acute Toxicity - Dermal: LD50 = >9400 mg/kg
read-across based on grouping of substances (category approach)
•Acute Toxicity - Inhalation: LC50 = 431 mg/m³
Test species - Rat, male/female
Test guideline - OECD Guideline 403
Test atmosphere - Aerosol
Exposure duration - 4 hours
•Irritation - Skin = irritating
Test species - Rabbit
Test guideline - OECD Guideline 404
•Irritation - Eyes = irritating
Test species - Rabbit
Test guideline - OECD Guideline 405
•Sensitisation - Skin = may cause sensitisation
Test species - mouse, female
Test guideline - OECD Guideline 429
•Sensitisation - Respiratory = may cause sensitisation
read-across based on grouping of substances (category approach)
•STOT SE - Inhalation = May cause respiratory irritation
•STOT RE - Inhalation = May cause damage to organs through prolonged or repeated exposure
.

SECTION 12: Ecological information

12.1 Toxicity

- Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9, aromatics

EC_{50} (daphnia): 3.2 mg/l (48 hr)
LC_{50} (fish): 9.2 mg/l (96 hr)

12.2 Persistence and degradability

SECTION 12: Ecological information (....)

- No information available

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- Insoluble in water

12.5 Results of PBT and vPvB assessment

- Not Classified

12.6 Other adverse effects

- No hazardous reactions known if used for its intended purpose

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal can be a hazardous operation, seek specialist advice
- Disposal should be in accordance with local, state or national legislation
- Dispose of container to a hazardous or special waste collection point
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- This material and its container must be disposed of as hazardous waste
- Wastes should not be confined

SECTION 14: Transport information

14.1 UN number or ID number

- UN No.: 1263

14.2 UN proper shipping name

- Proper Shipping Name: PAINT, ENVIRONMENTALLY HAZARDOUS
- ADR/RID: PAINT, ENVIRONMENTALLY HAZARDOUS
- IMDG: PAINT, MARINE POLLUTANT

14.3 Transport hazard class(es)

- Hazard Class: 3

14.4 Packing group

- Packing group III

14.5 Environmental hazards

- ENVIRONMENTALLY HAZARDOUS
- Marine pollutant

14.6 Special precautions for user

SECTION 14: Transport information (....)

- IMDG EmS: F-E, S-E
- Emergency action code: 3
- ADR transport category: 3Y
- Hazard identification number: 30
- Tunnel Code: (D/E)

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- The COSHH Regulations apply in the UK
- This Safety Data Sheet is provided in compliance with the Health and Safety at Work Act
- United Kingdom - The Carrage of Dangerous Goods and Use of Transportable Pressure Equipment Regulation 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]
- United Kingdom - EH40/2005 Workplace Exposure Limits
- 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 Safety Data Sheet does not constitute a workplace risk assessment
- A REACH chemical safety assessment has not been carried out

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH204: Contains isocyanates. May produce an allergic reaction. H226: Flammable liquid and vapour. H228: Flammable solid. H261: In contact with water releases flammable gases. H304: May be fatal if swallowed and enters airways. 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. H336: May cause drowsiness or dizziness. H340: May cause genetic defects. H350: May cause cancer. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects.

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