

Printing date 04.04.2023 Version number 1 Revision: 04.04.2023

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

- · 1.1 Product identifier
- Trade name: TREMCO RW252
- · MSDS code: W-T-RW252
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Adhesives
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Tremco CPG UK Ltd

Coupland Road, Hindley Green, Wigan, WN2 4HT

Tel: +44 (0) 1942251400, Fax: +44 (0) 1942251410

msds@cpg-europe.com

#### · Further information obtainable from:

Tremco CPG UK Ltd

Coupland Road, Hindley Green, Wigan, WN2 4HT

T: +44 (0) 1942251400, F: +44 (0) 1942251410

www.cpg-europe.com, info.uk@cpg-europe.com

#### 1.4 Emergency telephone number:

During office hours tel.: +44 (0) 1942251400. At all other times it is recommended to call NHS 111 (England/Wales/Scotland), your local GP/pharmacist (NI), 01 809 2166 (ROI), or otherwise to contact a doctor.

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

#### · 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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### · Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- · Contains:
- 4,4'-methylenediphenyl diisocyanate
- · Hazard statements
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

### · Precautionary statements

P201 Obtain special instructions before use. P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

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 soap and 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.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · Supplemental information:

As from 24 August 2023 adequate training is required before industrial or professional use.

· feica.eu/PUinfo:





- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.

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· **vPvB:** Not applicable.

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## **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with non-hazardous additions.

| · Dangerous components:        |  |          |  |  |  |
|--------------------------------|--|----------|--|--|--|
| CAS: 101-68-8                  | 4,4'-methylenediphenyl diisocyanate                          | 75-<100% |  |  |  |
| EINECS: 202-966-0              | Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;         |          |  |  |  |
| Reg.nr.: 01-2119457014-47-xxxx | Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; |          |  |  |  |
|                                | Skin Sens. 1, H317; STOT SE 3, H335, EUH204                  |          |  |  |  |
|                                | Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 %  |          |  |  |  |
|                                | Eye Irrit. 2; H319: C ≥ 5 %                                  |          |  |  |  |
|                                | Resp. Sens. 1; H334: C ≥ 0.1                                 |          |  |  |  |
|                                | %  |          |  |  |  |
|                                | STOT SE 3; H335: C ≥ 5 %                                     |          |  |  |  |

- · EU SVHC see Section 15
- · GB SVHC see Section 15
- Additional information:

For the wording of the listed hazard phrases refer to section 16.

While curing the following substances are formed and released by a reaction with atmospheric humidity: Carbon dioxide (CO2)

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

#### · General information:

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

In case of accident or if you feel unwell, seek medical advice (show this safety data sheet if possible).

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### · After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### · After eve contact:

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

If symptoms persist consult doctor.

### · After swallowing:

Rinse out mouth with water.

Seek medical treatment.

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- · Information for doctor: No further relevant information available.
- · 4.2 Most important symptoms and effects, both acute and delayed

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Harmful if inhaled.

Irritating to eyes, respiratory system and skin.

May cause damage to organs through prolonged or repeated exposure.

Prolonged skin contact may cause redness and irritation.

- · Hazards No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO2, dry chemical powder or foam. Fight larger fires with water spray.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Carbon dioxide (CO2)

Hydrogen cyanide (HCN)

Isocyanate

Nitrogen oxides (NOx)

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Do not allow water to get inside the containers.

Danger of bursting.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Keep people at a distance and stay on the windward side.

Wear protective clothing.

Avoid contact with the eyes and skin.

#### **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Do not handle until all safety precautions have been read and understood.

Do not breathe vapour.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Wear suitable protective clothing and gloves.

The usual precautionary measures are to be adhered to when handling chemicals.

- Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Store locked up.

· Information about storage in one common storage facility:

Protect from heat and direct sunlight.

Store away from water.

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

### · 8.1 Control parameters

### · Ingredients with limit values that require monitoring at the workplace:

### CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen: as -NCO

#### · PNECs

### CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

PNEC 1 mg/L (fresh water)

1 mg/L (sewage treatment plant) 10 mg/L (intermittent release)

10 mg/L (intermittent relea

0.1 mg/L (salt water)

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PNEC 1 mg/kg (soil)

#### Ingredients with biological limit values:

### CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

### Additional information:

The lists valid during the making were used as basis.

HSE EH40/2005 Workplace Exposure Limits (as amended)

#### · 8.2 Exposure controls

### Individual protection measures, such as personal protective equipment

### General protective and hygienic measures:

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eves and skin.

Do not breathe vapour.

Ensure that washing facilities are available at the work place.

#### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Preferably a compressed airline breathing apparatus.

Take note of emission threshold.



Self-contained respiratory protective device.

Use only in well-ventilated areas.

For further guidance,

please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide".

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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#### Material of gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

Body protection:



Protective work clothing

## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Coloured · Odour: Characteristic • Melting point/freezing point: 39.5 °C

Boiling point or initial boiling point and boiling

range

330 °C · Flash point: >200 °C

Not determined. Hq·

· Viscosity:

· Dynamic at 20 °C: >2,000 cSt

· Solubility

Immiscible / difficult to mix. water:

· Density and/or relative density

· Density at 20 °C: 1.12 g/cm<sup>3</sup>

9.2 Other information

· Appearance:

· Form: Liquid

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Important information on protection of health

and environment, and on safety.

· **Auto-ignition temperature:** Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

Solvent content:

VOC (EU)Molecular weight672 g/L250.26 g/mol

Information with regard to physical hazard

classes · Explosives Void · Flammable gases Void · Aerosols Void Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable

gases in contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void

Corrosive to metalsDesensitised explosivesVoid

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity Stable
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts with alcohols, amines, aqueous acids and alkalis.
- · 10.4 Conditions to avoid

Keep away from heat.

Water / moisture.

Danger of bursting.

- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

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Hydrogen cyanide (prussic acid) Nitrogen oxides (NOx) Isocyanate

## **SECTION 11: Toxicological information**

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

Harmful if inhaled.

| · LD/LC50 values relevant for classification:     |          |                     |  |
|---|----------|---------------------|--|
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate |          |                     |  |
| Oral  | LD50     | >15,000 mg/kg (rat) |  |
| Inhalative  | LC50/1 h | 11 mg/L (rat)       |  |

#### · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity

Suspected of causing cancer.

- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause respiratory irritation.

· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information: May be harmful if swallowed.
- · 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

# Aquatic toxicity: CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

|           | >1,000 mg/L (brachydanio rerio) |
|-----------|---------------------------------|
| LC50/24 h | >500 mg/L (brachydanio rerio)   |
| EC50      | >100 mg/L (daphnia magna)       |

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EC50/24 h >1,000 mg/L (daphnia magna)

EC50/72 h >1,640 mg/L (desmodesmus subspicatus)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

#### · Ecotoxical effects:

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

NOEC/21 d >10 mg/L (daphnia magna)

- · Additional ecological information:
- General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Disposal must be made according to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

| · European waste catalogue |   |  |
|----------------------------|---|--|
| 08 05 01*                  | waste isocyanates   |  |
| HP4                        | Irritant - skin irritation and eye damage                 |  |
| HP5                        | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |  |
| HP7                        | Carcinogenic  |  |
| HP13                       | Sensitising   |  |

- Uncleaned packaging:
- · Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

## **SECTION 14: Transport information**

- · 14.1 UN number or ID number
- · ADR, ADN, IMDG, IATA

Void

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| Trade name: TREMCO RW252                                 |                           |                     |
|--|---------------------------|---------------------|
|  |                           | (Contd. of page 10) |
| · 14.2 UN proper shipping name<br>· ADR, ADN, IMDG, IATA | Void                      |                     |
| · 14.3 Transport hazard class(es)                        |                           |                     |
| · ADR, ADN, IMDG, IATA<br>· Class                        | Void                      |                     |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                | Void                      |                     |
| · 14.5 Environmental hazards:                            | Not applicable.           |                     |
| · 14.6 Special precautions for user                      | Not applicable.           |                     |
| · 14.7 Maritime transport in bulk according instruments  | to IMO<br>Not applicable. |                     |
| · UN "Model Regulation":                                 | Void                      |                     |

## **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture HSE EH40/2005 Workplace Exposure Limits (as amended)

Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015) "GB- CLP" UK SI 2019 No. 720 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

"UK- REACH" UK SI 2019 No. 758 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 The Endocrine Disruptor Lists I, II, III (www.edlists.org)

- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 74
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- · Other regulations, limitations and prohibitive regulations No further relevant information available.
- · Substances of very high concern (SVHC) according to EU REACH, Article 57 Not applicable.
- · Substances of very high concern (SVHC) according to UK REACH Not applicable.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

- 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.

EUH204 Contains isocyanates. May produce an allergic reaction.

#### Department issuing SDS:

Prepared and verified in accordance with Annex II, Part A, 0.2.3. of "UK- REACH" UK SI 2019 No. 758 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- GB