

Product CHLORINATED RUBBER
 Revision date 11 August 2020
 Revision 2



Safety Data Sheet (SDS)
 according to Regulation (EC) No. 1907/2006

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name CHLORINATED RUBBER
Synonyms, Trade names Chlorinated Rubber Road Line Paint White.
 Chlorinated Rubber White.

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

Identified uses A flexible, hard wearing coating with good resistance to water in both acidic and alkaline conditions.
Uses advised against For use in dairy parlours, silage pits and sewage installations.
 Not recommended for interior coating of drinking water tanks.

1.3 Details of the supplier of the safety data sheet

Supplier Castle Paints Ltd
 Cloncollig Industrial Estate
 Tullamore
 Offaly
 R35 X993
 Ireland
 Tel: 353 (0)579351583
 info@castlepaints.ie

Contact person

1.4 Emergency telephone number

Emergency telephone Emergency medical information: 8am - 10pm (Seven Days) contact National Poison Center, Beaumont Hospital. Telephone: +353 (0) 18092166

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)
 Physical and chemical hazards Flam. Liq 3- H226
 Human health Skin Irrit.2 - H315, Eye Irrit.2A - H319, Lact - H362, STOT SE 3 - H335, STOT RE 2 - H373
 Environment Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

2.2 Label elements

Contains reaction mass of ethylbenzene and m-xylene and p-xylene
 Alkanes, C14-17, chloro

Label in accordance with (EC) no. 1272/2008



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

H362 May cause harm to breast-fed children.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
 P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
 P263 Avoid contact during pregnancy/while nursing.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry chemical, foam or carbon dioxide for extinction.

Disposal

P501 Dispose of contents/ container to a licensed hazardous waste disposal facility in accordance with all applicable regulations.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients**3.1 Substance**

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
reaction mass of ethylbenzene and m-xylene and p-xylene	CAS-No.: EC No.: 905-562-9 REACH Reg No.: 01-2119488216-32-0007	Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Eye Irrit.2A - H319, STOT SE 3 - H335, STOT RE 2 - H373, Asp. Tox - H304, Flam. Liq 3- H226	40-50%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5 REACH Reg No.: 01-2119489379-17-0046		15-25%
Alkanes, C14-17, chloro	CAS-No.: 85535-85-9 EC No.: 287-477-0 REACH Reg No.: 01-2119519269-33-0002	Aquatic Chronic 1 - H410, Lact - H362, Aquatic Acute 1 - H400	10-20%
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: EC No.: 919-857-5 REACH Reg No.: 01-2119463258-33-0000	Asp. Tox - H304, Flam. Liq 3- H226, STOT SE 3 - H336	1-10%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures**4.1 Description of first aid measures****General information**

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. First aid personnel must be aware of own risk during rescue.

Inhalation

If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If breathing has stopped or the exposed person experiences difficulty in breathing, administer artificial respiration and seek immediate medical assistance.

Ingestion

If this product is ingested, remove victim immediately from source of exposure. Thoroughly rinse the mouth with water. DO NOT induce vomiting! If person is conscious, give water to drink on demand. If swallowed, seek medical advice immediately and show the container or label. If vomiting occurs, keep head low so that stomach content doesn't enter the lungs. Never give anything by mouth to an unconscious person.

Skin contact

Remove affected person from source of contamination. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash exposed area with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues

Eye contact	after rinsing. Avoid contaminating unaffected eye. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if present and easy to do so. Continue to rinse for at least 15 minutes. Get prompt medical attention.
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4.2 Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. May cause damage to organs through prolonged or repeated exposure. May cause harm to breast-fed children.
Inhalation	Vapors may cause drowsiness and dizziness. May cause respiratory irritation. There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Skin contact	Contact with skin may cause irritation. There may be irritation and redness at the site of contact.
Eye contact	Causes serious eye irritation. May cause redness, swelling, pain and tearing.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat symptomatically. Immediate effects can be expected after short-term exposure.
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Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. Dry chemical, foam or carbon dioxide.
Unsuitable extinguishing media	High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	May produce hazardous combustion products such as carbon monoxide, carbon dioxide and unknown hydrocarbons.
Unusual fire & explosion hazards	The product is classified as a flammable liquid and vapour. Vapours are heavier than air and may spread near ground to sources of ignition. Do not allow to enter drains, sewers, basements and workpits, or any place where its accumulation can be dangerous.
Specific hazards	When heated and in case of fire, harmful vapours/gases may be formed. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special fire fighting procedures	Ventilate closed spaces before entering them. Water spray should be used to cool containers. If possible, fight fire from protected position. Containers close to fire should be removed immediately or cooled with water if safe to do so. Keep up-wind to avoid fumes.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Keep unnecessary and unprotected personnel from entering. Read and follow manufacturer's recommendations.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Do not allow to enter sewers/ surface or ground water. Prevent further leakage if safe to do so.
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6.3 Methods and material for containment and cleaning up**Spill clean up methods**

Wear appropriate personal protective equipment as specified in Section 8. Ventilate and evacuate the area. Eliminate all sources of ignition. Cover drains. Prevent further leakage or spillage if safe to do so.

Use non sparking tools or equipment for clean up. Absorb spillage with inert, damp, non-combustible material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4 Reference to other sections**Reference to other sections**

See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

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

Provide good ventilation. Wear suitable personal protective equipment, as detailed in Section 8. Keep away from ignition sources. Use non sparking tools. Avoid inhalation of vapours. Avoid contact with skin and eyes.

Read and follow manufacturer's recommendations. Avoid prolonged or repeated contact. Do not wear contact lenses. Do not handle this product while pregnant or breastfeeding.

7.2 Conditions for safe storage, including any incompatibilities**Storage precautions**

Keep upright, locked up and out of reach of children. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from incompatible materials (see section 10). Containers once opened must be carefully resealed to prevent leakage. Protect from direct sunlight. Prohibit ignition sources close to storage area. Store at temperatures between 5°C and 25°C.

Storage class

Flammable liquid storage.

7.3 Specific end use(s)**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

Usage description

Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection**8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
titanium dioxide	OEL		10 mg/m ³			Total inhalable dust.
titanium dioxide	OEL		4 mg/m ³			Respirable dust.
xylene	OEL	50 ppm	221 mg/m ³	100 ppm	442 mg/m ³	Mixed isomers.
ethylbenzene	OEL	100 ppm	442 mg/m ³	200 ppm	884 mg/m ³	

Ingredient comments

Ireland, Occupational Exposure Limits 2020.

8.2 Exposure Controls**Protective equipment****Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Where necessary use lighting and electrical equipment designed for use in atmospheres where flammable vapours are present, and which can direct static electricity by grounding equipment.

Respiratory equipment	<p>If the respirator is the sole means of protection, use a supplied air self contained breathing apparatus operated in positive pressure mode. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use respiratory protection as specified by an industrial hygienist or other qualified professional. Change filters frequently.</p> <p>If ventilation is insufficient, suitable respiratory protection must be provided. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Type A/organic vapour protective components recommended. Where aerosols are in use, use self contained breathing apparatus with a type AX filter or appropriate combined filter (e.g. AX-P3), in compliance with EN 371.</p>
Hand protection	<p>Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Where hand contact with the product may occur use gloves approved to relevant standards (e.g. Europe: EN374.) Gloves must be inspected prior to use.</p> <p>Suggested material: Neoprene/PVA. >8 hours (breakthrough time). Consult manufacturer for specific advice on material. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.</p>
Eye protection	<p>Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).</p>
Other protection	<p>Wear appropriate clothing to prevent any possibility of skin contact. Fire/chemical resistant full-length overalls and boots.</p> <p>Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.</p>
Hygiene measures	<p>Handle in accordance with good industrial hygiene and safety practice. Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work. Wash promptly if skin becomes contaminated.</p>
Process conditions	<p>Ensure that eye flushing systems and safety showers are located close by in the work place.</p>

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Various.
Odour	Characteristic.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	No information available as testing has not been completed.
pH-Value, Diluted solution	No information available as testing has not been completed.
Melting point	No information available as testing has not been completed.
Initial boiling point and boiling range	155.00 - 185.00 °C
Flash point	23.00 - 55.00 °C
Evaporation rate	No information available as testing has not been completed.
Flammability state	Flammable liquid and vapour.
Flammability limit - lower(%)	No information available as testing has not been completed.
Flammability limit - upper(%)	No information available as testing has not been completed.
Vapour pressure	No information available as testing has not been completed.
Vapour density (air=1)	No information available as testing has not been completed.
Relative density	0.95 - 1.25 g/cm ³ @ 20 °C

Bulk density	Not applicable as the product is a liquid.
Solubility	Insoluble.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n- Octanol/Water	No information available as testing has not been completed.
Auto ignition temperature (°C)	No information available as testing has not been completed.
Viscosity	> 20.5 mm ² /s. (Kinematic)
Explosive properties	Not classified as explosive.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	The product is a mixture, molecular weight data is not required.
Volatile organic compound	No information available as testing has not been completed.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Reaction with: strong oxidising substances and acids.
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10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3 Possibility of hazardous reactions

Hazardous reactions	For information on hazardous reactions see section 10.1.
Hazardous polymerisation	No information available as testing has not been completed.
Polymerisation description	No information available as testing has not been completed.

10.4 Conditions to Avoid

Conditions to avoid	Heat, sparks, open flames, temperature extremes and direct sunlight.
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10.5 Incompatible materials

Materials to avoid	Keep away from incompatibles such as oxidizing agents, acids, alkalis. Do not mix with other chemicals unless listed on directions.
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10.6 Hazardous decomposition products

Hazardous decomposition products	In combustion emits toxic fumes.
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Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information	Not classified based on available information.
Acute toxicity (Oral LD50)	No information available as testing has not been completed.
Acute toxicity (Dermal LD50)	No information available as testing has not been completed.
Acute toxicity (Inhalation LD50)	No information available as testing has not been completed.
Serious eye damage/irritation	Causes serious eye irritation.
Skin corrosion/irritation	The product is classified as a skin corrosion/irritation hazard.

Respiratory sensitisation	The product is not classified as a respiratory hazard.
Skin sensitisation	The product is not classified as a skin sensitisation hazard.
Germ cell mutagenicity	The product is not classified as a mutagen.
Carcinogenicity	The product is not classified as a carcinogen hazard.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	The product is classified as a single exposure specific target organ toxin.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	The product is classified as a repeat exposure specific target organ toxin.
Inhalation	Vapors may cause drowsiness and dizziness. May cause respiratory irritation. There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Skin contact	Contact with skin may cause irritation. There may be irritation and redness at the site of contact.
Eye contact	Causes serious eye irritation. May cause redness, swelling, pain and tearing.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Routes of entry	Eye and skin contact, ingestion or inhalation.
Target organs	Eyes, skin, digestive system, respiratory system.
Aspiration hazards:	The product is not classified as an aspiration hazard.
Reproductive toxicity:	The product is classified as a reproductive hazard.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Eco toxicological information	Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Degradability	The product is readily biodegradable.
Biological oxygen demand	No information available as testing has not been completed.
Chemical oxygen demand	No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential	No bioaccumulation potential.
Bioaccumulation factor	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.

12.4 Mobility in soil

Mobility	Readily absorbed into soil.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product is not identified as a PBT/vPvB substance.
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12.6 Other adverse effects

Other adverse effects None known.

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods Dispose of waste and residues in accordance with local authority requirements, and in accordance with the European Directives on waste and hazardous waste. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number

UN no. (ADR) UN1263
 UN no. (IMDG) UN1263
 UN no. (IATA) UN1263

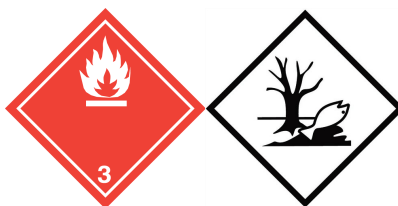
14.2 UN proper shipping name

ADR proper shipping name PAINT or PAINT RELATED MATERIAL
 IMDG proper shipping name PAINT or PAINT RELATED MATERIAL
 IATA proper shipping name PAINT

14.3 Transport hazard class(es)

ADR class 3
 IMDG class 3
 IATA class 3

Transport labels



14.4 Packing group

ADR/RID/ADN packing group III
 IMDG packing group III
 IATA packing group III

14.5 Environmental hazards

ADR Yes
 IMDG Yes
 IATA Yes

14.6 Special precautions for user

EMS F-E, S-E
 Emergency action code A3 A72 A192
 Hazard no. (ADR) 30
 Tunnel restriction code (D/E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable.

Section 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019) This Safety Data Sheet is in accordance with REACH Annex II, (EC) No 830/2015.
Revision comments	[2]Classification updated. [4]Information updated. [5]Information updated. [6]Information updated. [7]Information updated. [8]Code of practice updated. Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [15]Information updated. [16]Information updated.
Revision date	11 August 2020
Supersedes date	10 March 2017
Revision	2
Safety data sheet status	Approved.

Hazard statements in full

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure .
EUH066	Repeated exposure may cause skin dryness or cracking.
H362	May cause harm to breast-fed children.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H336	May cause drowsiness or dizziness.
H225	Highly flammable liquid and vapour.

Disclaimer

This information relates only to the specific 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 himself as to the suitability of such information for his own particular use.