

SAFETY DATA SHEET

Lionheart Terracotta Products - LTP Grout & Tile Protector Aerosols

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

1.1. Product identifier

Product name Lionheart Terracotta Products - LTP Grout & Tile Protector Aerosols

Product number RN-/3

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

Identified uses Protectant

1.3. Details of the supplier of the safety data sheet

Supplier LTP
Tone Industrial Estate
Milverton Road
Wellington
Somerset
TA21 0AN
Tel: 01823 666 213

1.4. Emergency telephone number

Emergency telephone +44 (0) 1823 666 213 (Hours 09:00 - 17:00 Mon to Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Aerosol 1 - H222, H229

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

Human health Vapours and spray/mists in high concentrations are narcotic. See Section 11 for additional information on health hazards.

Environmental The product contains a substance which is toxic to aquatic organisms.

Physicochemical Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is extremely flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Lionheart Terracotta Products - LTP Grout & Tile Protector 600ml Aerosols

Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing vapour/ spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTRE/doctor if you feel unwell. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Contains	HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS, N-BUTYL ACETATE, isopropyl acetate
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS	60-100%
CAS number: 64742-49-0	EC number: 927-510-4
Classification	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	

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PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE	10-30%
CAS number: 68476-85-7	EC number: 270-704-2
Classification	
Flam. Gas 1A - H220	
Press. Gas (Comp.) - H280	
N-BUTYL ACETATE	1-5%
CAS number: 123-86-4	EC number: 204-658-1
Classification	
Flam. Liq. 3 - H226	
STOT SE 3 - H336	
isopropyl acetate	1-5%
CAS number: 108-21-4	EC number: 203-561-1
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H336	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.
Ingestion	Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam, carbon dioxide or dry powder.
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5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Use suitable respiratory protection if ventilation is inadequate.

Advice on general occupational hygiene Wash promptly with soap and water if skin becomes contaminated. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Protect from freezing and direct sunlight. Store in a dry place. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

N-BUTYL ACETATE

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Short-term exposure limit (15-minute): WEL 966 mg/m³ 200 ppm

Long-term exposure limit (8-hour TWA): WEL 724 mg/m³ 150 ppm

WEL = Workplace Exposure Limit.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)

DNEL	Consumer - Oral; Long term systemic effects: 149 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 149 mg/kg/day
	Workers - Dermal; Long term systemic effects: 300 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 447 mg/m ³
	Workers - Inhalation; Long term systemic effects: 2085 mg/m ³

N-BUTYL ACETATE (CAS: 123-86-4)

DNEL	Consumer - Oral; Short term systemic effects: 2 mg/kg/day
	Consumer - Oral; Long term systemic effects: 2 mg/kg/day
	Workers - Dermal; Short term systemic effects: 11 mg/kg/day
	Workers - Dermal; Long term systemic effects: 11 mg/kg/day
	Consumer - Dermal; Short term systemic effects: 6 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 6 mg/kg/day
	Workers - Inhalation; Short term systemic effects: 600 mg/m ³
	Workers - Inhalation; Short term local effects: 600 mg/m ³
	Workers - Inhalation; Long term systemic effects: 300 mg/m ³
	Workers - Inhalation; Long term local effects: 300 mg/m ³
	Consumer - Inhalation; Short term systemic effects: 300 mg/m ³
	Consumer - Inhalation; Short term local effects: 300 mg/m ³
	Consumer - Inhalation; Long term systemic effects: 35.7 mg/m ³
Consumer - Inhalation; Long term local effects: 35.7 mg/m ³	

PNEC	- Fresh water; 0.18 mg/l
	- Sediment (Freshwater); 0.981 mg/kg
	- Sediment (Marinewater); 0.981 mg/kg
	- marine water; 0.018 mg/l
	- STP; 35.6 mg/l
	- Soil; 0.0903 mg/kg

8.2. Exposure controls

Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific requirements are anticipated under normal conditions of use.
Other skin and body protection	Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.
Respiratory protection	No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Clear.
Odour	Solvent.
Odour threshold	No information available.

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pH	No information available.
Melting point	No information available.
Initial boiling point and range	-41 (-41 to 126)°C
Flash point	-40°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.0 % Upper flammable/explosive limit: 10.4 %
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.678
Solubility(ies)	Insoluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	246°C
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability The product may not be stable under some conditions of storage or use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition products None at ambient temperatures.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation	May cause drowsiness or dizziness. Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	Particles in the eyes may cause irritation and smarting.
Acute and chronic health hazards	No known chronic or acute health risks.
Route of exposure	Inhalation Skin and/or eye contact

Toxicological information on ingredients.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

N-BUTYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,760.0

Species Rat

ATE oral (mg/kg) 10,760.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 14,113.0

Species Rabbit

ATE dermal (mg/kg) 14,113.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 23.4

Species Rat

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ATE inhalation (vapours 23.4 mg/l)

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

Acute aquatic toxicity

Acute toxicity - fish	NOEC, : 1.534 mg/l, Fish LC ₅₀ , 96 hours: >13.4 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	NOEC, : 1 mg/l, Daphnia magna LC ₅₀ , 48 hours: 3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 10 mg/l, Algae
Acute toxicity - microorganisms	LOEC, : 1-10 mg/l, Activated sludge

N-BUTYL ACETATE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 24 hours: 54 mg/l, Fish LC ₅₀ , 96 hours: 18 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 44 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 647.7 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Partition coefficient No information available.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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Disposal methods	Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not pierce or burn, even after use.
Waste class	The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS, FLAMMABLE
Proper shipping name (IMDG)	AEROSOLS, FLAMMABLE
Proper shipping name (ICAO)	AEROSOLS, FLAMMABLE
Proper shipping name (ADN)	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).
Control of Substances Hazardous to Health Regulations 2002 (as amended).
EH40/2005 Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	14/10/2022
Revision	2
Supersedes date	08/12/2020
SDS number	8437
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

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.