SAFETY DATA SHEET

PARAGON POLYURETHANE FLOOR PAINT

This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No 1907/2006

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

1.1. Product identifier

Product name PARAGON POLYURETHANE FLOOR PAINT

Product number PET402803, PET402810

Synonyms; trade names TILE RED, MID GREY

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

Identified uses An air-drying, liquid, solvent-borne paint for consumer, professional and industrial use. Used as a floor paint for decorating buildings. Apply by brush or roller.

1.3. Details of the supplier of the safety data sheet

Supplier

Decor Ireland Ltd / Petersons
9 Rathdown Close
Lissue Industrial Estate West
LISBURN
Co Antrim
BT28 2RB
Tel: 028 9262 0300
Fax: 028 9262 0309
Info@decorireland.com

Contact person Technical Dept

1.4. Emergency telephone number

Emergency telephone Decor Ireland Ltd. 028 9262 0300 may be contacted (Office hours only)

National emergency telephone number

Members of the public should contact:
In England and Wales: NHS Direct 0845 4647 or 111
In Scotland: NHS24 08454 24 24 24
In Republic of Ireland: 01 809 2166

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards
Flam. Liq. 3 - H226

Health hazards
STOT SE 3 - H336

Environmental hazards
Not Classified

Classification (67/548/EEC or 1999/45/EC)
R10,R66,R67.

Human health
Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Physicochemical

PARAGON POLYURETHANE FLOOR PAINT

The product is flammable and may form explosive vapours/mixtures with air during use.

2.2. Label elements

Pictogram

Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Precautionary statements

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapour/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in eyes, on skin, or on clothing.

P233 Keep container tightly closed.

Ensure maximum ventilation during application and drying.

When applying by brush or roller to large interior surfaces or in confined spaces, wear a suitable cartridge respirator or compressed air breathing apparatus.

Special precautions should be taken during surface preparation of pre1960s paint surfaces as they may containharmful lead. For further advice contact Manor Technical Services Department.

Lift with care - gross weight (5 litres) does not exceed 7 Kgs

Remove as much product as possible from brushes or rollers, before cleaning.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 IF ON SKIN: Wash with plenty of soap and water. Do not use solvent thinners or white spirit.

P403+P235 Store in a well-ventilated place. Keep cool.

To avoid the risk of spillage, always store and transport in a secure upright position.

Do not empty into drains/watercourses

P501 Dispose of contents/container in accordance with national regulations.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH210 Safety data sheet available on request.

EU limit value for this product (cat. A/i): 500 g/l. This product contains max 500 g/l VOC

VOCs (Volatile Organic Compounds) contribute to atmospheric pollution.

VOC Content: High (25 - 50%)

Contains HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

Supplementary precautionary statements

PARAGON POLYURETHANE FLOOR PAINT

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

P260 Do not breathe vapours.

P284 [In case of inadequate ventilation] wear respiratory protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P312 Call a POISON CENTER/doctor if you feel unwell.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P405 Store locked up.

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, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics **20 - 50%**

CAS number: 64742-48-9 **EC number:** 919-857-5 **REACH registration number:** 01-2119463258-33-xxxx

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 STOT SE 3 - H336	Xn;R65. R10,R66,R67.

HYDROCARBONS C9 AROMATICS **0.1 - <1%**

CAS number: — **EC number:** 918-668-5 **REACH registration number:** 01-2119455851-35-xxxx

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 STOT SE 3 - H335, H336 Aquatic Chronic 2 - H411	Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.

99422018 **0.1 - <1%**

CAS number: — **EC number:** 907-495-0 **REACH registration number:** 01-2119545465-35-xxxx

Classification	Classification (67/548/EEC or 1999/45/EC)
Aquatic Chronic 3 - H412	R52.

MESITYLENE **0.1 - <1%**

CAS number: 108-67-8 **EC number:** 203-604-4 **REACH registration number:** 01-2119463878-19-xxxx

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226 STOT SE 3 - H335 Aquatic Chronic 2 - H411	R10 Xi;R37 N;R51/53

The Full Text for all R-Phrases and 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

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General information

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
If unconscious place in recovery position and seek medical advice.

Inhalation

Remove to fresh air, keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

Ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Keep at rest. Do NOT induce vomiting.

Skin contact

Remove contaminated clothing.
Wash skin thoroughly with soap and water or use recognised skin cleanser.
Do NOT use solvents or thinners.

Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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

Inhalation

In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion

Ingestion may cause nausea, diarrhoea and vomiting.

Skin contact

Prolonged or repeated contact with skin may cause soreness, irritation or dry skin due to a defatting action.

Eye contact

The liquid splashed in the eyes may cause irritation and reversible damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

recommended: alcohol resistant foam, CO2, powders, water spray/mist

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Fire will produce dense black smoke.
Exposure to decomposition products may cause a health hazard.
Appropriate breathing apparatus may be required.

Hazardous combustion products

Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting

Cool closed containers exposed to fire with water.
Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Exclude sources of ignition and ventilate the area.
Avoid breathing vapours.
Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions

Do not allow to enter drains or watercourses.
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).
Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in Section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
Electrical equipment should be protected to the appropriate standard.
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear anti-static footwear and clothing and floors should be of the conducting type.
Isolate from sources of heat, sparks and open flame.
Non-sparking tools should be used.
Avoid skin and eye contact.
Avoid inhalation of dust from sanding.
Smoking, eating and drinking should be prohibited in application area.
For personal protection see Section 8.
Never use pressure to empty: container is not a pressure vessel.
Always keep in containers of same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or water courses Wash hands before eating and before leaving the site.
Remove contaminated clothing and protective equipment before entering eating areas. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials, preferably soaked with water, should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.
Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
Information on fire and explosion protection.

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Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in accordance with the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR.
The principles contained in the HSE guidance note Chemical Warehousing: The Storage of Packaged Dangerous Substances, should be observed when storing this product.
Notes on joint storage.
Store away from oxidising agents, from strongly alkaline and strongly acid materials.
Additional information on storage conditions
Observe label precautions.
Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat and direct sunlight.
Keep container tightly closed.
Keep away from sources of ignition.
No smoking.
Prevent unauthorised access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

Long-term exposure limit (8-hour TWA): SUP 1000 mg/m3

HYDROCARBONS C9 AROMATICS

Long-term exposure limit (8-hour TWA): WEL 25 ppm 120 mg/m3
SUP

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Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 resp.dust

MESITYLENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m3

WEL = Workplace Exposure Limit

Ingredient comments

According to EH40 - List of approved workplace exposure limits.
For dust the 8 hour TWA's are:-
Respirable dust 4 mg/cu.m (WEL)
Total inhalable dust 10 mg/cu.m (WEL)

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HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics (CAS: 64742-48-9)

DNEL
Professional - Dermal; Long term : 208 mg/kg/day
Professional - Inhalation; Long term : 871 (8 hr) mg/m3
Consumer - Dermal; Long term : 125 mg/kg/day
Consumer - Inhalation; Long term : 185 (24 hr) mg/m3
Consumer - Oral; Long term : 125 mg/kg/day

HYDROCARBONS C9 AROMATICS

DNEL
Industry - Inhalation; Long term systemic effects: 150 mg/m3
Industry - Dermal; Long term systemic effects: 25 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 32 mg/m3
Consumer - Dermal; Long term systemic effects: 11 mg/kg/day
Consumer - Oral; Long term systemic effects: 11 mg/kg/day

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DNEL
Industry - Dermal; Short term : 11.2 mg/cm2
Industry - Dermal; Long term : 3.75 mg/cm2
Consumer - Dermal; Short term : 11.2 mg/m2
Consumer - Dermal; Long term : 3.75 mg/m2
Consumer - Oral; : 0.56 mg/kg/day
Industry - Inhalation; Short term : 3 mg/m3
Industry - Inhalation; Long term : 3 mg/m3

PNEC
- Soil; 217 mg/kg
Derived calculation
- Sediment (Marinewater); 108 mg/kg
- Fresh water; 0.0432 mg/l
- Marine water; 0..00432 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 1080 mg/kg

MESITYLENE (CAS: 108-67-8)

DNEL
Industry - Inhalation; Long term systemic effects: 100 mg/m3
Industry - Inhalation; Short term systemic effects: 100 mg/m3
Industry - Inhalation; Long term local effects: 100 mg/m3
Industry - Dermal; Long term systemic effects: 16171 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 29.4 mg/m3
Consumer - Inhalation; Short term systemic effects: 29.4 mg/m3
Consumer - Inhalation; Long term local effects: 29.4 mg/m3
Consumer - Dermal; Long term systemic effects: 9512 mg/kg/day
Consumer - Oral; Long term systemic effects: 15 mg/kg/day

PNEC
- Fresh water; 0.101 mg/l
- Marine water; 0.101 mg/l
- Intermittent release; 0.101 mg/l
- STP; 0.202 mg/l
- Sediment (Freshwater); 7.86 mg/kg
- Sediment (Marinewater); 7.86 mg/kg
- Soil; 1.34 mg/kg

8.2. Exposure controls

Protective equipment




Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

If these are not sufficient to maintain concentrations of solvent vapour below the OEL, suitable respiratory protection must be worn.
See Respiratory Equipment below.

Eye/face protection

Use safety eyewear, manufactured/tested to EN 166, and designed to protect against splash of liquids.

Hand protection

For prolonged or repeated handling, use chemical resistant gloves classified under "Standard EN374: Protective gloves against chemicals and micro-organisms" made from PE, PVA or Viton gloves.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Viscous liquid.

Colour

Various

Odour

Naphthenic

Odour threshold

Not determined.

pH

Not determined.

Melting point

<-20°C

Initial boiling point and range

145 - 200°C @ 760 mm Hg

Flash point

38 - 40°C SCC (Setaflash closed cup).

Evaporation rate

0.11

Evaporation factor

Not determined.

Flammability (solid, gas)

Not determined. Material is not a solid or gas

Upper/lower flammability or explosive limits

Lower flammable/explosive limit: 0.6 % Upper flammable/explosive limit: 8 %

Vapour pressure

0.21 kPa @ 20°C

Vapour density

Heavier than air

Relative density

1.34 - 1.36 @ 20°C

Solubility(ies)

< 0.1 g/100 g water @ 20°C Immiscible with water.

Partition coefficient

Not determined.

Auto-ignition temperature

230 - 270°C

Decomposition Temperature

Not determined.

Viscosity

3.5 - 4.5 poise Rotothinner @ 20°C

Explosive properties

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties

The product is not expected to be oxidising

9.2. Other information

Volatile organic compound

This product contains a maximum VOC content of 375 g/l.

Volatile Organic Compound (VOC)	26 -28 g/100g

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7).
When exposed to high temperatures may produce hazardous decomposition products.

10.2. Chemical stability

Stability

Stable under recommended storage and handling conditions (see section 7).
In a fire, hazardous decomposition products may be produced.

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions

10.6. Hazardous decomposition products

such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

PARAGON POLYURETHANE FLOOR PAINT

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

15000

Species

Rat

General information

There are no data available on the mixture itself.
The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 3 for details.

Inhalation

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Ingestion

Ingestion may cause nausea, diarrhoea and vomiting.

Skin contact

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Eye contact

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. The liquid splashed in the eyes may cause irritation and reversible damage.

Route of entry

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Medical symptoms

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Solvents may cause some of the above effects by absorption through the skin.

Medical considerations

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Toxicological information on ingredients.

PARAGON POLYURETHANE FLOOR PAINT

HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

Carcinogenicity

Not applicable.

Reproductive toxicity

Reproductive toxicity - development

Not applicable.

Specific target organ toxicity - single exposure

STOT - single exposure

Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

Target organs

Central nervous system

Aspiration hazard

If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours)

Inhalation

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

Ingestion

If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours)

Skin contact

Prolonged contact may cause dryness of the skin.

Eye contact

May cause temporary eye irritation.

PARAGON POLYURETHANE FLOOR PAINT

HYDROCARBONS C9 AROMATICS

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

3,492

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

3160

Species

Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 vapours mg/l)

6.193

Species

Rat

ATE inhalation (vapours mg/l)

6.193

Skin corrosion/irritation

Animal data

Mild skin irritation (rabbit)

Serious eye damage/irritation

No eye irritation OECD 405 rabbit

Skin sensitisation

- Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro

Chromosome aberration: Negative. Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Chromosome aberration: Negative. Based on available data the classification criteria are not met.

Carcinogenicity

Scientifically unjustified.

Reproductive toxicity

Reproductive toxicity - fertility

Fertility: - NOAEC 1500 ppm, Inhalation, Rat P

Reproductive toxicity - development

Developmental toxicity: - NOAEC: 100 ppm, Inhalation, Mouse

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Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

2,000

Species

Rat

Notes (oral LD50)

No mortality Slightly harmful by ingestion.

Acute toxicity - dermal

PARAGON POLYURETHANE FLOOR PAINT

Acute toxicity dermal (LD50 mg/kg)

2000

Species

Rat

Notes (dermal LD50)

No mortality Slightly harmful in contact with skin.

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 dust/mist mg/l)

5.1

Species

Rat

Notes (inhalation LC50)

No mortality Slightly harmful by inhalation

ATE inhalation (dusts/mists mg/l)

5.1

Skin corrosion/irritation

Animal data

Dose: Mild skin irritation, 4 hours , Rabbit OECD Test Guideline 404 Slightly or not irritating to skin

Serious eye damage/irritation

Mild eye irritation OECD 405 rabbit

Skin sensitisation

Local Lymph Node Assay (LLNA) - Mouse: OECD Test Guideline 429 No skin allegy observed.

Germ cell mutagenicity

Genotoxicity - in vitro

: Inactive in genotoxic in vitro tests

Carcinogenicity

Not available.

Reproductive toxicity

Reproductive toxicity - fertility

Screening: - NOAEL 1000 mg/kg, Oral, Rat Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure

Dust inhalation: At high concentrations, risk of irritation to respiratory system , ,

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not classified as STOT by oral route , ,

Aspiration hazard

Not applicable

PARAGON POLYURETHANE FLOOR PAINT

MESITYLENE

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

5,000

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

4

Species

Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 gases ppmV)

24000

Skin corrosion/irritation

Animal data

Irritating to skin. (rabbit)

Serious eye damage/irritation

No eye irritation OECD 405 rabbit

Skin sensitisation

Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro

Ames test: Negative. Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Chromosome aberration: Negative. Based on available data the classification criteria are not met.

Carcinogenicity

Scientifically unjustified.

Reproductive toxicity

Reproductive toxicity - fertility

Multi-generation study - NOAEC >1500 ppm, Inhalation, Rat This substance has no evidence of toxicity to reproduction.

Reproductive toxicity - development

Maternal toxicity: - NOAEC: 492 mg/m3, Inhalation,

SECTION 12: Ecological Information

Ecotoxicity

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

12.1. Toxicity

There is no toxicity data for the mixture itself.

Acute toxicity - aquatic invertebrates

Not determined.

Acute toxicity - aquatic plants

Not determined.

Acute toxicity - microorganisms

Not determined.

Acute toxicity - terrestrial

Not determined.

PARAGON POLYURETHANE FLOOR PAINT

Ecological information on ingredients.

HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

Acute toxicity - fish

LC50, 96 hours: > 100 mg/l, Onchorhynchus mykiss (Rainbow trout) OECD

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: > 1000 mg/l, Daphnia magna OECD

Acute toxicity - aquatic plants

IC_{50}, 72 hours: >1000 mg/l Pseudokrichneriella subcapitata mg/l, Algae

Acute toxicity - microorganisms

EC_{50}, 48 hours: 43.98 mg/l,

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.23 mg/l, Daphnia magna

HYDROCARBONS C9 AROMATICS

Acute toxicity - fish

LC50, 96 hours: 9.2 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC_{50}, : 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC_{50}, 72 hours: 2.9 mg/l, Pseudokirchneriella subcapitata (green algae)

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Acute toxicity - fish

LC50, 96 hours: > 100 mg/l, Onchorhynchus mykiss (Rainbow trout) OECD Guideline for Testing of Chemicals, No.203 Slightly harmful to fish

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 94.9 mg/l, Daphnia magna OECD Test Guideline 202 Harmful to daphnia

Acute toxicity - aquatic plants

EC_{50}, 72 hours: 43.2 mg/l, Pseudokirchneriella subcapitata (green algae) OECD Test Guideline 201 Harmful to algae

Acute toxicity - microorganisms

EC20, 3 hours: > 1000 mg/l, Activated sludge OECD Test Guideline 209

MESITYLENE

Acute toxicity - fish

LC50, 96 hours: 12.52 mg/l, Carassius auratus (Goldfish)

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 6.0 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC_{50}, 48 hours: 12.5 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability

There is no data for the mixture itself.

Phototransformation

Not determined.

Stability (hydrolysis)

Not determined.

Biodegradation

Not determined.

Biological oxygen demand

PARAGON POLYURETHANE FLOOR PAINT

Not determined.

Chemical oxygen demand

Not determined.

Ecological information on ingredients.

HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

Persistence and degradability

28 days - 80% readily biodegradable - OECD 301F

HYDROCARBONS C9 AROMATICS

Persistence and degradability

The product is readily biodegradable

Phototransformation

Scientifically unjustified.

Stability (hydrolysis)

- : @ Not Hydrolysable°C

Biodegradation

water - Degradation (%) 78%: in 28 days

99422018

Persistence and degradability

63% (28 days) Activated sludge - Closed bottle test (OECD 301D).
Readily biodegradable.

MESITYLENE

Persistence and degradability

The product is not biodegradable.

Stability (hydrolysis)

Scientifically unjustified.

Biodegradation

water - Degradation (%) 0: 192 hours Not degradable

12.3. Bioaccumulative potential

There is no data for the mixture itself.

Partition coefficient

Not determined.

Ecological information on ingredients.

HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

No data available on bioaccumulation.

HYDROCARBONS C9 AROMATICS

No data available on bioaccumulation.

99422018

Potentially bioaccumulating

Partition coefficient

: log Kow 8.6 @ 25°C

MESITYLENE

BCF: 23 - 382,

12.4. Mobility in soil

Mobility

PARAGON POLYURETHANE FLOOR PAINT

The product is immiscible with water and will spread on the water surface. The product contains organic solvents which will evaporate easily from all surfaces.

Ecological information on ingredients.

HYDROCARBONS, C9 - C11. n-alkanes, isoalkanes,cyclics,<2% aromatics

Mobility

The product contains organic solvents which will evaporate easily from all surfaces. In soil the product has only slight mobility and will partially evaporate

99422018

Adsorption/desorption coefficient

- log Koc: 5.4 @ °C

Henry's law constant

11.8 @ °C

MESITYLENE

Adsorption/desorption coefficient

Soil - log Koc: 2.87 @ °C

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Do not allow to enter drains or water courses.

Disposal methods

Waste and emptied containers are controlled wastes and should be disposed of in accordance with The Environment Protection (Duty of Care) Regulations" (in England, Scotland, Wales) or The Controlled Waste (Duty of Care) Regulations (in Northern Ireland).

Waste class

The European Waste Catalogue classification of this product, when disposed of as waste is: Waste Code: Name of Waste (according to Directive 2000/532/EC):
08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of empty containers contaminated by the product in accordance with local or national legal provisions.

SECTION 14: Transport information

Road transport notes	VISCOUS FLAMMABLE LIQUID DEROGATION In pack sizes less than 450 litres, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR. These provisions do not apply to air transport.
Sea transport notes	VISCOUS FLAMMABLE LIQUID DEROGATION: In pack sizes up to and including 30 litres, under the terms of 2.3.2.5, this product is not subject to the packaging, labelling and marking requirements of the IMDG Code, but both full documentation and placarding of cargo transport units is still required.
Air transport notes	VISCOUS FLAMMABLE LIQUID DEROGATION: The "viscosity exemption" provision does not apply to air transport. The information provided in this section may not be valid for transport by Air. Please call the number in section 1 of this safety data sheet to obtain more information about the transport of this product by air.

14.1. UN number

PARAGON POLYURETHANE FLOOR PAINT

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3

ADR/RID label 3

IMDG subsidiary risk

ICAO subsidiary risk

Transport labels

14.4. Packing group

PG III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Transport within the user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

EmS F-E, S-E

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information

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

National regulations

EH40/2005 Workplace exposure limits.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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 (as amended). The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information. See also Section 15.3 below.

Guidance

The Approved Classification and Labelling Guide, 6th edition. COSHH Essentials: easy steps to control chemicals, HSG 193. HSE books. Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in this publication. Chemical Warehousing: Storage of Flammable Liquids in Containers(HSG51), HSE Books. Storage: Packaged Dangerous Substances HSG71, HSE. A Guide to Working with Solvents (INDG 272), HSE. Workplace Exposure Limits EH40.

15.3 Paints Directive 2004/42/EC VOC Content: EU limit for this product (Cat A/i) is: 500 g/litreThis product contains maximum 500 g/litre VOC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

PARAGON POLYURETHANE FLOOR PAINT

General information

The product should not be used for purposes other than those shown in Section 1. RECOMMENDATIONS OF THE BRITISH COATINGS FEDERATION

Safety data sheet available on request. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Store in a well-ventilated place - keep cool. Keep container tightly closed. Dispose of contents/container to waste disposal site in accordance with local/national regulations. Do not get in eyes, on skin or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: call a doctor if you feel unwell. If on skin: wash with plenty of soap and water. Do not use solvent thinners or white spirit. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Special precautions should be taken during surface preparation of pre-1960s paint surfaces as they may contain harmful lead. For further advice contact Manor Technical Services Department. Ensure maximum ventilation during application and drying. Remove as much product as possible from brushes and rollers, before cleaning. Do not empty into drains or watercourses. Do not breathe vapours/spray. Wear respiratory protection. Not recommended for interior use on large surfaces, or in confined spaces. Lift with care - gross weight (5 litres) does not exceed 7 Kgs. Use only outdoors or in a well-ventilated area. To avoid the risk of spillage, always store and transport in a secure upright position.

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Risk phrases in full

R10 Flammable.

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.