
SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: SWARCOPLAST PUMATRACK
Contains: n-butyl acrylate
Methyl methacrylate (MMA)
2-ethylhexyl acrylate

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

Use of the substance/mixture: Rollable Coloured Surfacing Grades.
For industrial/professional use only.
Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

Name of Supplier: SWARCO HITEX LTD
Address of Supplier: 4 Cloister Way
Ellesmere Port
Cheshire
CH65 4E
UK
Telephone: +44 (0)151-355 4100
Website: swarco.com/rms
Email: info.hitex@swarco.com

1.4 Emergency telephone number

Emergency Telephone: +44 (0) 151 355 4100
Hours of operation: 08.00 to 17.00 GMT

For medical advice or information contact your GP or dial 111 for 24-hour health advice (England – NHS 111, Scotland – NHS 24 111, Wales – NHS 111 Wales, Northern Ireland – NHS 111 Northern Ireland).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; STOT SE 3, H335

Additional information: For full text of Hazard and EU Hazard statements: see section 16

2.2 Label elements



Signal Word: Warning

Hazard statements

H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

SECTION 2: Hazards identification (....)

Precautionary statements

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

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P302+P352+P333+P313 - IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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

P501 - Dispose of contents/container to an authorised waste collection point

Supplemental Hazard information (EU)

None

2.3 Other hazards

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

Does not contain any substances with endocrine disrupting properties

This product contains < 1% respirable crystalline silica

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	SCL/ M-Factor/ ATE	WEL/ OEL
Calcium carbonate	25 - 35 %	1317-65-3	215-279-6	Not classified (Substance with a workplace exposure limit)	-	-	Yes
n-butyl acrylate	10 - 20 %	141-32-2	205-480-7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	01-2119453155 -43-XXXX	-	Yes
Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	10 - 15 %	80-62-6	201-297-1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	01-2119452498 -28-XXXX	-	Yes
2-ethylhexyl acrylate	< 1 %	103-11-7	203-080-7	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	01-2119453158 -37-XXXX	-	No
1,1'-(p-tolylimino)diprop-2-ol	< 1 %	38668-48-3	254-075-1	Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	01-2119980937 -17-XXXX	-	No
N,N-dimethyl-p-toluidine	< 1 %	99-97-8	202-805-4	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 3, H412	-	-	No
2-methoxy-1-methylethyl acetate	< 1 %	108-65-6	203-603-9	Flam. Liq. 3, H226	01-2119475791 -29-XXXX	-	Yes

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

Cristobalite (respirable)	< 1 %	14464-46-1	238-455-4	STOT RE 1, H372	-	-	Yes
Quartz SiO ₂ (crystalline silica)	< 1 %	14808-60-7	238-878-4	Carc. 1A, H350 STOT RE 1, H372	-	-	Yes

SECTION 4: First aid measures

No action shall be taken involving any personal risk or without suitable training

Rescuers should put on approved personal protective equipment (PPE) before administering first aid

4.1 Description of first aid measures
Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
Irrigate eyes thoroughly whilst lifting eyelids
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.

Ingestion

Rinse mouth.
Give plenty of water to drink
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person
Get immediate medical advice/attention.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Keep warm and at rest, in a half upright position. Loosen clothing
Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation
If breathing is difficult, oxygen should be given by a trained person
If exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed
Contact with eyes

Causes redness and irritation

Contact with skin

Causes redness and irritation
May cause an allergic skin reaction.
May cause skin sensitisation. Stop using product if skin sensitisation occurs.

Ingestion

May cause gastro-intestinal irritation
May cause nausea/vomiting

Inhalation

May cause respiratory irritation
Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis,

SECTION 4: First aid measures (....)

commonly referred to as silicosis
Principal symptoms of silicosis are cough and breathlessness
May cause headache
May cause confusion

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: alcohol resistant foam; dry powder; carbon dioxide; sand/earth
Unsuitable extinguishing media: high volume water jet

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour.

Vapours may form explosive mixtures with air when the substance is heated above its flash point

Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion

Gives off irritating or toxic fumes (or gases) in a fire.

Decomposition products may include nitrogen and carbon oxides

5.3 Advice for firefighters

Evacuate the area and keep personnel upwind

Keep container(s) exposed to fire cool, by spraying with water

Collect contaminated fire extinguishing water separately. This **MUST** not be discharged into drains.
Prevent fire extinguishing water from contaminating surface or ground water.

Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Rescuers should take suitable precautions to avoid becoming casualties themselves

No action shall be taken involving any personal risk or without suitable training

Personal precautions for non-emergency personnel: Avoid breathing vapours, mist or gas; Avoid contact with skin and eyes; Wash thoroughly after handling.

Personal precautions for emergency responders: Shut off all ignition sources; Evacuate the area and keep personnel upwind; Wear self-contained breathing apparatus (SCBA); Wear chemical protection suit

6.2 Environmental precautions

Do not allow to enter public sewers and watercourses

If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so.

SECTION 6: Accidental release measures (....)

Shut off all ignition sources

Use non-sparking tools.

Take action to prevent static discharges.

Small spills

Wipe up spillage with damp absorbent cloth or towel

Place in appropriate container

Remove contaminated material to safe location for subsequent disposal

Wash thoroughly after dealing with spillage

Large spills

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal

Place in appropriate container

Seal containers and label them

Remove contaminated material to safe location for subsequent disposal

To be disposed of as hazardous waste

Seek expert advice for removal and disposal of all contaminated materials and wastes

Wash thoroughly after dealing with spillage

6.4 Reference to other sections

See section(s): 7, 8 & 13

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

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not use this product.

Ensure adequate ventilation

Danger of suffocation at high concentrations due to oxygen displacement

Use local exhaust ventilation and/or enclosures.

Use non-sparking handtools

Use explosion-proof equipment.

Ground and bond container and receiving equipment.

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

Before opening large containers, release any pressure build-up by loosening closure slowly.

Wear protective clothing as per section 8

Use good personal hygiene practices

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Ensure eyewash stations and safety showers are nearby

Contaminated clothing should be laundered before reuse

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry well-ventilated place. Keep container tightly closed.

Keep only in the original container

Never fill containers more than 80 % because aerial oxygen is necessary for stabilising

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

Store at 5 - 25 °C

Can polymerise with intense heat release

Protect from sunlight.

Keep away from food, drink and animal feedingstuffs

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

Keep away from: radical-forming starting agents, peroxides, reactive metals, amines, heavy metal compounds, oxidizing agents, reducing agents

7.3 Specific end use(s)

Rollable Coloured Surfacing Grades

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents).

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Occupational exposure to respirable crystalline silica dust should be monitored and controlled

Calcium carbonate

WEL (long term) 10 mg/m³ (UK, inhalable dust)

WEL (long term) 4 mg/m³ (UK, respirable dust)

DNEL (inhalational) 6.36 mg/m³ Industry, Long Term, Local Effects

DNEL (inhalational) 1.06 mg/m³ Consumer, Long Term, Local Effects

DNEL (oral) 6.1 mg/kg bw/day Consumer, Long Term, Systemic Effects

DNEL (oral) 6.1 mg/kg bw/day Consumer, Acute/Short Term, Systemic Effects

PNEC (STP) 100 mg/L

n-butyl acrylate

(EU) OELV (long term TWA) 2 mg/m³ 11 ppm

(EU) OELV (short term limit value) 10 mg/m³ 53 ppm

WEL (long term) 1 ppm 5 mg/m³ (UK)

WEL (short term) 5 ppm 26 mg/m³ (UK)

DNEL (inhalational) 11 mg/m³ Industry, Long Term, Local Effects

PNEC aqua (freshwater) 2.72 µg/L

PNEC aqua (intermittent releases, freshwater) 11 µg/l

PNEC aqua (marine water) 272 ng/L

PNEC (STP) 3.5 mg/L

PNEC sediment (freshwater) 33.8 µg/kg

PNEC sediment (marine water) 3.38 µg/kg

PNEC terrestrial (soil) 1 mg/kg

Methyl methacrylate

(EU) OELV (long term TWA) 50 ppm

(EU) OELV (short term limit value) 100 ppm

WEL (long term) 50 ppm 208 mg/m³ (UK)

WEL (short term) 100 ppm 416 mg/m³ (UK)

DNEL (inhalational) 348.4 mg/m³ Industry, Long Term, Systemic Effects

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

DNEL (inhalational) 208 mg/m³ Industry, Long Term, Local Effects
DNEL (inhalational) 416 mg/m³ Industry, Acute/Short Term, Local Effects
DNEL (dermal) 13.67 mg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (dermal) 1.5 mg/cm² Industry, Long Term, Local Effects
DNEL (dermal) 1.5 mg/cm² Industry, Acute/Short Term, Local Effects
DNEL (inhalational) 74.3 mg/m³ Consumer, Long Term, Systemic Effects
DNEL (inhalational) 104 mg/m³ Consumer, Long Term, Local Effects
DNEL (inhalational) 208 mg/m³ Consumer, Acute/Short Term, Local Effects
DNEL (dermal) 8.2 mg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (dermal) 1.5 mg/cm² Consumer, Long Term, Local Effects
DNEL (dermal) 1.5 mg/cm² Consumer, Acute/Short Term, Local Effects
DNEL (oral) 8.2 mg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 940 µg/L
PNEC aqua (intermittent releases, freshwater) 940 µg/L
PNEC aqua (marine water) 94 µg/L
PNEC (STP) 10 mg/L
PNEC sediment (freshwater) 10.2 mg/kg
PNEC sediment (marine water) 102 µg/kg
PNEC terrestrial (soil) 1.48 mg/kg

2-ethylhexyl acrylate

DNEL (inhalational) 38 mg/m³ Industry, Long Term, Local Effects
DNEL (inhalational) 38 mg/m³ Industry, Acute/Short Term, Local Effects
DNEL (dermal) 6.5 mg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 4.5 mg/m³ Consumer, Long Term, Local Effects
DNEL (dermal) 2.34 mg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 230 µg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 2.72 µg/L
PNEC aqua (intermittent releases, freshwater) 11 µg/L
PNEC aqua (marine water) 272 ng/L
PNEC (STP) 2.3 mg/L
PNEC sediment (freshwater) 108 µg/kg
PNEC sediment (marine water) 10.8 µg/kg
PNEC terrestrial (soil) 1 mg/kg

1,1'-(p-tolylimino)dipropan-2-ol

DNEL (inhalational) 2.47 mg/m³ Industry, Long Term, Local Effects
DNEL (dermal) 700 µg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (oral) 250 µg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 17 µg/L
PNEC aqua (intermittent releases, freshwater) 170 µg/L
PNEC aqua (marine water) 1.7 µg/L
PNEC (STP) 199.5 mg/L
PNEC sediment (freshwater) 163 µg/kg
PNEC sediment (marine water) 16.3 µg/kg
PNEC terrestrial (soil) 22.6 µg/kg

N,N-dimethyl-p-toluidine

DNEL (inhalational) 1.224 mg/m³ Industry, Long Term, Local Effects
DNEL (dermal) 694.167 µg/kg Industry, Long Term, Systemic Effects
DNEL (inhalational) 301.812 µg/m³ Consumer, Long Term, Local Effects
DNEL (dermal) 292.522 µg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 173.542 µg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 13.7 - 152.59 µg/
PNEC aqua (intermittent releases, freshwater) 13.7 - 152.59 µg/
PNEC aqua (marine water) 13.7 - 152.59 µg/
PNEC (STP) 1.36 - 4.286 mg/L
PNEC sediment (freshwater) 45.378 - 48.245 mg/kg
PNEC sediment (marine water) 45.378 - 48.245 mg/kg
PNEC terrestrial (soil) 18.677 - 20.365 mg/kg

2-methoxy-1-methylethyl acetate

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

(EU) OELV (long term TWA) 50 mg/m³ 275 ppm
 (EU) OELV (short term limit value) 100 mg/m³ 550 ppm
 WEL (long term) 50 ppm 274 mg/m³ (UK. Can be absorbed through the skin)
 WEL (short term) 100 ppm 548 mg/m³ (UK. Can be absorbed through the skin)
 DNEL (inhalational) 275 mg/m³ Industry, Long Term, Systemic Effects
 DNEL (inhalational) 550 mg/m³ Industry, Acute/Short Term, Local Effects
 DNEL (dermal) 796 mg/kg bw/day Industry, Long Term, Systemic Effects
 DNEL (inhalational) 33 mg/m³ Consumer, Long Term, Systemic Effects
 DNEL (inhalational) 33 mg/m³ Consumer, Long Term, Local Effects
 DNEL (dermal) 320 mg/kg bw/day Consumer, Long Term, Systemic Effects
 DNEL (oral) 36 mg/kg bw/day Consumer, Long Term, Systemic Effects
 PNEC aqua (freshwater) 635 µg/L
 PNEC aqua (intermittent releases, freshwater) 6.35 mg/L
 PNEC aqua (marine water) 63.5 µg/L
 PNEC (STP) 100 mg/L
 PNEC sediment (freshwater) 3.29 mg/kg
 PNEC sediment (marine water) 329 µg/kg
 PNEC terrestrial (soil) 290 µg/kg

Cristobalite (respirable)

(EU) OELV (long term TWA) 0.1 mg/m³
 WEL (long term) 0.1 mg/m³ (UK. Silica, respirable crystalline)

Quartz (crystalline silica)

(EU) OELV (long term TWA) 0.1 mg/m³
 WEL (long term) 0.1 mg/m³ (UK. Silica, respirable crystalline)

8.2 Exposure controls

Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

Engineering controls

Engineering controls should be provided to prevent the need for ventilation
 Use local exhaust ventilation and/or enclosures.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment
 Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827 and EN 143 particle filter
 Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type ABEK and particle filter EN 143

Skin protection

Wear chemical resistant clothing approved to standard EN 13034 or BS EN 14605
 Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
 The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
 Glove material: Butyl rubber
 Thickness: 0.7mm
 Breakthrough time: > 480 min
 Reference: Literature

Eye/face protection

Wear goggles giving complete eye protection approved to standard EN 166.

Thermal hazards

Not applicable

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

Hygiene measures

- Do not eat, drink or smoke when using this product.
- Contaminated clothing should be laundered before reuse
- Use good personal hygiene practices
- Wash thoroughly after handling.
- Ensure eyewash stations and safety showers are nearby

Environmental exposure controls

- Avoid release to the environment.
- Do not allow to penetrate the ground/soil.
- Do not empty into drains



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Pigmented
Odour:	Acrylic (odour threshold 0.05 ppm)
Melting point/freezing point:	-64 to -48 °C
Boiling point or initial boiling point and boiling range:	> 100 °C
Flammability:	Flammable liquid and vapour.
Lower and upper explosion limit:	Lower explosive limit: (MMA) 2.1% (in air); Upper explosive limit: (MMA) 12.5% (in air)
Flash point:	35 °C
Auto-ignition temperature:	275 °C @ 101.325 kPa (n-butyl acrylate) 435 °C @ 101.325 kPa (MMA)
Decomposition temperature:	No information available
pH:	Not applicable
Kinematic viscosity:	3 – 8,000 mPa.s @ 25 °C
Solubility:	Solubility in water: 1.7 g/L @ 20 °C (n-butyl acrylate), 15.3 g/L @ 20 °C (MMA)
Partition coefficient n-octanol/water (log value):	See sub-section 12.3
Vapour pressure:	5 hPa @ 22.2 °C (n-butyl acrylate) 37 hPa @ 20 °C (MMA)
Density and/or relative density:	1.60 g/cm ³ @ 20 °C
Relative vapour density:	No information available
Particle characteristics:	Not applicable

9.2 Other information

Volatile Organic Compounds (VOC): No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

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

Considered stable under normal conditions

10.3 Possibility of hazardous reactions

Polymerisation with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, heavy metal ions and when exposed to white light, ultraviolet light or heat.

The product is normally supplied in a stabilized form.

If the permissible storage period and/or storage temperature is exceeded, the product may polymerise with heat evolution.

Polymerisation is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

10.4 Conditions to avoid

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

Keep away from direct sunlight

10.5 Incompatible materials

Incompatible with radical-forming starting agents, peroxides, reactive metals, amines, heavy metal compounds, oxidizing agents, reducing agents

10.6 Hazardous decomposition products

Decomposition products may include nitrogen and carbon oxides

SECTION 11: Toxicological information

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

Acute Toxicity

Based on available data, the classification criteria are not met

ATE mix (oral) > 2 000 mg/kg

ATE mix (inhal) > 20 mg/L (vapours)

ATE mix (dermal) > 2 000 mg/kg

Substances

Chemical Name	LD ₅₀ (oral, rat)	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)
Calcium carbonate	2 000 mg/kg	(4 h) 3 mg/L	2 000 mg/kg (rat)
n-butyl acrylate	3 150 mg/kg	(4 h) 10 - 11.2 mg/L	2 000 - 3 024 mg/kg (rabbit)
Methyl methacrylate	7 900 - 9 400 mg/kg	(4 h) 29.8 mg/L	5 000 mg/kg
2-ethylhexyl acrylate	4 435 mg/kg	LC ₅₀ (8 h) 1.19 mg/L	7 522 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol	25 - 200 mg/kg	No data available	2 000 mg/kg (rat)
N,N-dimethyl-p-toluidine	1 650 mg/kg	(4 h) 1.4 mg/L	2 000 mg/kg
2-methoxy-1-methylethyl acetate	5 155 - 10 000 mg/kg	LC ₅₀ (4 h) 1 728 - 1 883 ppm	2 000 mg/kg (rat)
Cristobalite (respirable)	No data available	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available	No data available

Skin corrosion/irritation

Causes skin irritation.

Classification based on calculation and concentration thresholds

SECTION 11: Toxicological information (....)

Substances

Chemical Name	Irritation/corrosion
Calcium carbonate	No adverse effect observed (not irritating)
n-butyl acrylate	Adverse effect observed (irritating)
Methyl methacrylate	Adverse effect observed (irritating)
2-ethylhexyl acrylate	Adverse effect observed (irritating)
1,1'-(p-tolylimino)dipropan-2-ol	No adverse effect observed (not irritating)
N,N-dimethyl-p-toluidine	No adverse effect observed (not irritating)
2-methoxy-1-methylethyl acetate	No adverse effect observed (not irritating)
Cristobalite (respirable)	No data available
Quartz SiO ₂ (crystalline silica)	No data available

Serious eye damage/irritation

Causes serious eye irritation.

Classification based on calculation and concentration thresholds

Substances

Chemical Name	Irritation/corrosion
Calcium carbonate	No adverse effect observed (not irritating)
n-butyl acrylate	Adverse effect observed (irritating)
Methyl methacrylate	No adverse effect observed (not irritating)
2-ethylhexyl acrylate	No adverse effect observed (not irritating)
1,1'-(p-tolylimino)dipropan-2-ol	Adverse effect observed (irritating)
N,N-dimethyl-p-toluidine	No adverse effect observed (not irritating)
2-methoxy-1-methylethyl acetate	No adverse effect observed (not irritating)
Cristobalite (respirable)	No data available
Quartz SiO ₂ (crystalline silica)	No data available

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Classification based on calculation and concentration thresholds

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Calcium carbonate	No adverse effect observed (not sensitising)	No study available
n-butyl acrylate	Adverse effect observed (sensitising)	No study available
Methyl methacrylate	Adverse effect observed (sensitising)	No adverse effect observed (not sensitising)
2-ethylhexyl acrylate	Adverse effect observed (sensitising)	No study available
1,1'-(p-tolylimino)dipropan-2-ol	No adverse effect observed (not sensitising)	No study available
N,N-dimethyl-p-toluidine	No adverse effect observed (not sensitising)	No study available
2-methoxy-1-methylethyl acetate	No adverse effect observed (not sensitising)	No study available
Cristobalite (respirable)	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Cristobalite is a suspected mutagen: The outcome in CTA assay is positive according to ISSCTA

Quartz (crystalline silica) is a suspected mutagen: The outcome in CTA assay is positive according to ISSCTA

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Calcium carbonate	No adverse effect observed (negative)	No study available

SECTION 11: Toxicological information (....)

n-butyl acrylate	No adverse effect observed (negative)	No adverse effect observed (negative)
Methyl methacrylate	Adverse effect observed (positive)	No adverse effect observed (negative)
2-ethylhexyl acrylate	No adverse effect observed (negative)	No adverse effect observed (negative)
1,1'-(p-tolylimino)dipropen-2-ol	No adverse effect observed (negative)	No study available
N,N-dimethyl-p-toluidine	No adverse effect observed (negative)	No study available
2-methoxy-1-methylethyl acetate	No adverse effect observed (negative)	No data available
Cristobalite (respirable)	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available

Carcinogenicity

Based on available data, the classification criteria are not met

Methyl methacrylate is classified by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans)

2-ethylhexyl acrylate is classified by IARC as Group 2B (possibly carcinogenic to humans)

Quartz (crystalline silica) is a suspected carcinogen: IARC monographs classified the substance as carcinogenic or probably/possibly carcinogenic.

Crystalline silica in the form of quartz or cristobalite dust is carcinogenic to humans (Group 1). (IARC Monograph 100C, 2012)

Exposure in high concentrations or over prolonged periods of time can lead to lung disease (silicosis) and an increased risk of lung cancer

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Calcium carbonate	No data available	No data available	No data available
n-butyl acrylate	No data available	80 mg/m ³	8 mg/kg bw/day (mouse)
Methyl methacrylate	90.3 mg/kg bw/day	2 050 mg/m ³	No data available
2-ethylhexyl acrylate	No data available	No data available	1 063 mg/kg bw/day (mouse)
1,1'-(p-tolylimino)dipropen-2-ol	No data available	No data available	No data available
N,N-dimethyl-p-toluidine	No data available	No data available	No data available
2-methoxy-1-methylethyl acetate	No data available	11 058 mg/m ³	No data available
Cristobalite (respirable)	No data available	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available	No data available

Reproductive toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Calcium carbonate	No data available	No data available	No data available
n-butyl acrylate	150 mg/kg bw/day (Effect on fertility) 400 mg/kg bw/day (Effect on developmental toxicity)	286 mg/m ³ (Effect on fertility) 133 mg/m ³ (Effect on developmental toxicity)	No data available
Methyl methacrylate	450 mg/kg bw/day (rabbit) (Effect on developmental toxicity)	8 300 mg/m ³ (Effect on developmental toxicity)	No data available
2-ethylhexyl acrylate	150 mg/kg bw/day (Effect on fertility)	750 mg/m ³ (Effect on developmental toxicity)	No data available
1,1'-(p-tolylimino)dipropen-2-ol	20 mg/kg bw/day (Effect on fertility) 20 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available
N,N-dimethyl-p-toluidine	LOAEL 125 mg/kg bw/day (Effect on fertility) 61.875 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available

SECTION 11: Toxicological information (....)

2-methoxy-1-methylethyl acetate	1 000 mg/kg bw/day (Effect on fertility)	5 400 mg/m ³ (Effect on fertility)	No data available
Cristobalite (respirable)	No data available	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available	No data available

Specific target organ toxicity (STOT) - single exposure

This product is classified as STOT SE 3 (may cause respiratory irritation)
Classification based on calculation and concentration thresholds

Substances

Chemical Name	Route	Remarks
Calcium carbonate	Respiratory	No study available
n-butyl acrylate	Respiratory	Adverse effect observed (irritating)
Methyl methacrylate	Respiratory	Adverse effect observed (irritating)
2-ethylhexyl acrylate	Respiratory	Adverse effect observed (irritating)
1,1'-(p-tolylimino)dipropan-2-ol	Respiratory	No study available
N,N-dimethyl-p-toluidine	Respiratory	No study available
2-methoxy-1-methylethyl acetate	Respiratory	No adverse effect observed (not irritating)
Cristobalite (respirable)	Respiratory	No data available
Quartz SiO ₂ (crystalline silica)	Respiratory	No data available

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Calcium carbonate	1 000 mg/kg bw/day	212 mg/m ³	No data available
n-butyl acrylate	84 - 111 mg/kg bw/day	110 - 570 mg/m ³	No data available
Methyl methacrylate	124 mg/kg bw/day	104 - 1 640 mg/m ³	No data available
2-ethylhexyl acrylate	No data available	75 - 226 mg/m ³	4.5 mg/cm ² (mouse)
1,1'-(p-tolylimino)dipropan-2-ol	20 - 40 mg/kg bw/day	No data available	No data available
N,N-dimethyl-p-toluidine	LOAEL 6 mg/kg bw/day	LOEL 67.284 mg/kg bw/day	No data available
2-methoxy-1-methylethyl acetate	1 000 mg/kg bw/day	1 650 mg/m ³	1 000 - 1 838 mg/kg bw/day
Cristobalite (respirable)	No data available	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available	No data available

Aspiration hazard

Based on available data, the classification criteria are not met

Contact with eyes

Causes redness and irritation

Contact with skin

Causes redness and irritation

May cause an allergic skin reaction.

May cause skin sensitisation. Stop using product if skin sensitisation occurs.

Ingestion

May cause gastro-intestinal irritation

May cause nausea/vomiting

Inhalation

May cause respiratory irritation

SECTION 11: Toxicological information (....)

Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis

Principal symptoms of silicosis are cough and breathlessness

May cause headache

May cause confusion

11.2 Information on other hazards

Does not contain any substances with endocrine disrupting properties

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Calcium carbonate	No data available	No data available	(72 h) 14 mg/L
n-butyl acrylate	(4 days) 1.1 - 56.2 mg/L	(48 h) 1.3 - 19 mg/L	(72 h) 1.71 - 14.6 mg/L
Methyl methacrylate	(4 days) 79 mg/L	(48 h) 69 mg/L	(72 h) 110 mg/L
2-ethylhexyl acrylate	(4 days) 1.81 mg/L	(48 h) 1.3 mg/L	(72 h) 1.71 mg/L
1,1'-(p-tolylimino)dipropan-2-ol	(4 days) 17 mg/L	(48 h) 28.8 mg/L	(72 h) 245 mg/L
N,N-dimethyl-p-toluidine	(4 days) 46 - 52.8 mg/L	(48 h) 13.7 mg/L	(72 h) 22 - 24.37 mg/L
2-methoxy-1-methylethyl acetate	(4 days) 100 - 180 mg/L	(48 h) 500 mg/L	(4 days) 1 g/L
Cristobalite (respirable)	No data available	No data available	No data available
Quartz SiO ₂ (crystalline silica)	No data available	No data available	No data available

12.2 Persistence and degradability

Some ingredients are biodegradable

Substances

Chemical Name	Biodegradation
Calcium carbonate	Readily biodegradable in water (100%)
n-butyl acrylate	Readily biodegradable in water (100%)
Methyl methacrylate	Readily biodegradable in water (100%)
2-ethylhexyl acrylate	Readily biodegradable in water (100%)
1,1'-(p-tolylimino)dipropan-2-ol	Inherently biodegradable in water (100%)
N,N-dimethyl-p-toluidine	Readily biodegradable (50%)
2-methoxy-1-methylethyl acetate	Readily biodegradable in water (100%)
Cristobalite (respirable)	Not applicable, inorganic
Quartz SiO ₂ (crystalline silica)	Not applicable, inorganic

12.3 Bioaccumulative potential

Bioaccumulation is not expected

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Calcium carbonate	No bioaccumulation potential	Not applicable, inorganic
n-butyl acrylate	No bioaccumulation potential BCF 17.3 (calculated)	(Log Pow) 2.38 @ 25 °C
Methyl methacrylate	Low potential for bioaccumulation (Log Pow < 3)	(Log Pow) 1.38 @ 20 °C
2-ethylhexyl acrylate	347 L/kg ww	(Log Pow) 4.64 @ 20 °C

SECTION 12: Ecological information (....)

1,1'-(p-tolylimino)dipropan-2-ol	Bioaccumulation is not expected	2.1 at 24 °C
N,N-dimethyl-p-toluidine	Bioaccumulation is not expected BCF 29.09- 33.19	1.729 at 35 °C
2-methoxy-1-methylethyl acetate	Low potential for bioaccumulation (Log Kow < 3)	1.2 @ 20 °C
Cristobalite (respirable)	Bioaccumulation is not expected	Not applicable, inorganic
Quartz SiO ₂ (crystalline silica)	Bioaccumulation is not expected	Not applicable, inorganic

12.4 Mobility in soil

Adsorption to solid soil phase is not expected

Substances

Chemical Name	Adsorption/desorption
Calcium carbonate	Low potential for adsorption
n-butyl acrylate	Adsorption to solid soil phase is not expected Koc 88.4
Methyl methacrylate	Adsorption to solid soil phase is not expected Koc 34 (average)
2-ethylhexyl acrylate	Koc 360
1,1'-(p-tolylimino)dipropan-2-ol	Koc 60
N,N-dimethyl-p-toluidine	Koc 100.96 - 126.2
2-methoxy-1-methylethyl acetate	No data available
Cristobalite (respirable)	No data available
Quartz SiO ₂ (crystalline silica)	No data available

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Disposal should be in accordance with local, state or national legislation

Dispose of contents/container to an authorised waste collection point

This material and/or its container must be disposed of as hazardous waste

Do not reuse empty containers without commercial cleaning or reconditioning

Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition

Do not pierce or burn container, even after use

Avoid release to the environment.

13.2 Classification

The waste must be identified according to the List of Wastes (2000/532/EC)

SECTION 13: Disposal considerations (....)

Hazardous Property Code(s): HP 3 Flammable; HP 4 Irritant; HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity; HP 13 Sensitising

EWC Code: 08 01 11* - waste paint and varnish containing organic solvents or other hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

UN No.: 1263

14.2 UN proper shipping name

Proper Shipping Name: PAINT

14.3 Transport hazard class(es)

Hazard Class: 3

14.4 Packing group

Packing Group: III

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

No information available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

ADR UN No.: 1263

Proper Shipping Name: PAINT

ADR Hazard Class: 3

ADR Packing Group: III

Tunnel Code: (D/E)

14.9 Sea (IMDG)

IMDG UN No.: 1263

Proper Shipping Name: PAINT

IMDG Hazard Class: 3

IMDG Packing Group: III

14.10 Air (ICAO/IATA)

ICAO UN No.: 1263

Proper Shipping Name: PAINT

ICAO Hazard Class: 3

ICAO Packing Group: III

SECTION 15: Regulatory information

SECTION 15: Regulatory information (....)

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

This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain

Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

Cristobalite is listed in Annex III of REACH as # Suspected mutagen: The outcome in CTA assay is positive according to ISSCTA

Quartz (crystalline silica) is listed in Annex III of REACH as # Suspected carcinogen: IARC monographs classified the substance as carcinogenic or probably/possibly carcinogenic # Suspected mutagen: The outcome in CTA assay is positive according to ISSCTA

Restrictions on use according to Annex XVII to REACH Regulation: Not applicable

Seveso III Directive (2012/18/EU, Dangerous Substances in Annex I: Class P5c (flammable liquids), LT 5 000 te, UT 50 000 te

15.2 Chemical safety assessment

A REACH chemical safety assessment has not been carried out

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Sources of data: Information from company data, published literature and supplier safety data sheets

Revision No. 2.0.0. Revised November 2021.

Changes made: Classification and ingredients updated. Revised to conform to latest version of REACH Annex II

Revision No. 2.1.0. Revised December 2023.

Changes made: Product rename due to rebranding

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3, H226: Classification based on bridging principles of similar tested mixtures

Skin Irrit. 2, H315: Classification based on calculation and concentration thresholds

Skin Sens. 1, H317: Classification based on calculation and concentration thresholds

Eye Irrit. 2, H319: Classification based on calculation and concentration thresholds

STOT SE 3, H335: Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour

H300: Fatal if swallowed

SECTION 16: Other information (....)

H301: Toxic if swallowed
H311: Toxic in contact with skin
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H331: Toxic if inhaled
H335: May cause respiratory irritation
H350: May cause cancer
H360D: May damage the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure
H373: May cause damage to organs through prolonged or repeated exposure
H412: Harmful to aquatic life with long lasting effects

Acronyms

ATE: Acute Toxicity Estimate
CAS: Chemical Abstracts Service
DNEL: Derived No-Effect Level
EC: European Community
EC₅₀: Effective Concentration, 50%
EL₅₀: Effective Loading Rate resulting in 50% effect.
GHS: Globally Harmonised System
LC₅₀: Lethal Concentration, 50%
LD₅₀: Lethal Dose, 50%
LOAEC: Lowest Observed Adverse Effect Concentration
LOAEL: Lowest Observed Adverse Effect Level
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
OEL: Occupational Exposure Limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No-Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
SCL: Specific Concentration Limit
STOT RE: Specific Target Organ Toxicity Repeated Exposure
STOT SE: Specific Target Organ Toxicity Single Exposure
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
WEL: Workplace Exposure Limit