



SAFETY DATA SHEET

High Traffic Floor Paint - Activator

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

1.1 Product identifier

Product name : High Traffic Floor Paint - Activator
Product description : Paint Hardener.
Product type : Liquid.
UFI : 89UA-4JN6-0NJW-2UD9

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

| Identified uses | |
|--|--------|
| Consumer use Professional use Industrial use | |
| Uses advised against | Reason |
| None identified. | - |

1.3 Details of the supplier of the safety data sheet

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 Fax no.: +44 (0) 191 4920125
 enquiries@tor-coatings.com

e-mail address of person responsible for this SDS : rpmeurohas@rustoleum.eu

1.4 Emergency telephone number

National advisory body/Poison Centre

Supplier

Telephone number : +353 19014670
Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226
 Acute Tox. 4, H332
 Skin Irrit. 2, H315
 Eye Irrit. 2, H319
 Skin Sens. 1, H317
 STOT SE 3, H335
 STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: Flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General

: P103 - Read carefully and follow all instructions.
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention

: P280 - Wear protective gloves. Wear eye or face protection.
P284 - In case of inadequate ventilation wear respiratory protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe vapour.

Response

: P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Storage

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

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: polyhexamethylene diisocyanate
xylene (mixture of isomers)
hexamethylene-di-isocyanate

Supplemental label elements

: Contains isocyanates. May produce an allergic reaction.

Supplemental label elements : Detergents - Regulation (EC) No 907/2006

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Yes, applicable.

High Traffic Floor Paint - Activator

SECTION 2: Hazards identification

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture
Ireland

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|---------------------------------|---|-----------|--|---------|
| polyhexamethylene diisocyanate | REACH #: 01-2119485796-17 EC: 931-274-8 CAS: 28182-81-2 | ≥50 - ≤75 | Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 | [1] [2] |
| xylene (mixture of isomeres) | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥10 - ≤25 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 Flam. Liq. 3, H226 | [1] [2] |
| 2-methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | ≥10 - ≤25 | Asp. Tox. 1, H304 Flam. Liq. 3, H226 | [2] |
| hexamethylene-di-isocyanate | REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1 | ≤0,3 | Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above. | [1] [2] |

Sweden

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

| SCL (Specific Concentration Limits) | |
|-------------------------------------|------------------------------|
| hexamethylene-di-isocyanate | H334 = 0.5 % H317 = 0.5 % |

High Traffic Floor Paint - Activator

SECTION 3: Composition/information on ingredients

| | |
|---|---|
| ATE (acute toxicity estimates) Not applicable. | Not applicable. |
| Nanoform Particle characteristics This product does not contains nanomaterials. | Particle Size Not applicable. |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

SECTION 4: First aid measures

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : No unusual hazard if involved in a fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c | 5000 tonne | 50000 tonne |

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Ireland

| Product/ingredient name | Exposure limit values |
|---------------------------------|---|
| polyhexamethylene diisocyanate | NAOSH (Ireland, 8/2018). Skin sensitiser. OELV-8hr: 0,02 mg/m ³ , (as NCO) 8 hours. OELV-15min: 0,07 mg/m ³ , (as NCO) 15 minutes. |
| xylene (mixture of isomeres) | NAOSH (Ireland, 8/2018). Absorbed through skin. OELV-15min: 442 mg/m ³ 15 minutes. OELV-15min: 100 ppm 15 minutes. OELV-8hr: 221 mg/m ³ 8 hours. OELV-8hr: 50 ppm 8 hours. |
| 2-methoxy-1-methylethyl acetate | NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-15min: 550 mg/m ³ 15 minutes. OELV-15min: 100 ppm 15 minutes. OELV-8hr: 275 mg/m ³ 8 hours. OELV-8hr: 50 ppm 8 hours. |
| hexamethylene-di-isocyanate | NAOSH (Ireland, 3/2016). Skin sensitiser. OELV-8hr: 0,005 ppm, (as NCO) 8 hours. |

Recommended monitoring procedures : 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 atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) 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 atmospheres - 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.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---------------------------------|-----------------------------|-----------------------|-------------------------|--------------------------------|----------|
| polyhexamethylene diisocyanate | DNEL | Short term Inhalation | 1 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 0,5 mg/m ³ | Workers | Local |
| xylene (mixture of isomeres) | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| 2-methoxy-1-methylethyl acetate | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 65,3 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 125 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 153,5 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 54,8 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 1,67 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 1,67 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 33 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 33 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 54,8 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 153,5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 550 mg/m ³ | Workers | Local |
| | hexamethylene-di-isocyanate | DNEL | Short term Inhalation | 1 mg/m ³ | Workers |
| DNEL | | Long term Inhalation | 0,5 mg/m ³ | Workers | Local |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|--------------------------------|------------------------|------------------|--------------------------|
| polyhexamethylene diisocyanate | Fresh water | 0,127 mg/l | - |
| | Marine | 0,0127 mg/l | - |
| | Fresh water sediment | 266700 mg/kg dwt | - |
| | Marine water sediment | 26670 mg/kg dwt | - |
| | Soil | 53182 mg/kg dwt | - |
| | Sewage Treatment Plant | 38,28 mg/l | - |
| xylene (mixture of isomeres) | Fresh water | 0,327 mg/l | Sensitivity Distribution |
| | Marine water | 0,327 mg/l | Sensitivity Distribution |
| | Fresh water sediment | 12,46 mg/kg | Equilibrium Partitioning |
| | Marine water sediment | 12,46 mg/kg | Equilibrium Partitioning |
| | Soil | 2,31 mg/kg | Equilibrium Partitioning |

SECTION 8: Exposure controls/personal protection

| | | | |
|---------------------------------|------------------------|------------------|---|
| 2-methoxy-1-methylethyl acetate | Sewage Treatment Plant | 6,58 mg/l | - |
| | Fresh water | 0,635 mg/l | - |
| | Fresh water sediment | 3,29 mg/kg | - |
| | Marine water sediment | 0,329 mg/kg | - |
| | Soil | 0,29 mg/kg | - |
| hexamethylene-di-isocyanate | Sewage Treatment Plant | 100 mg/l | - |
| | Fresh water | 0,127 mg/l | - |
| | Marine Sediment | 0,0127 mg/l | - |
| | Soil | 266700 mg/kg dwt | - |
| | Sewage Treatment Plant | 53182 mg/kg dwt | - |
| | | 38,28 mg/l | - |

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields. (EN 166)

Skin protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

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 but should not be applied once exposure has occurred.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): > 8 hours (breakthrough time): Butyl rubber gloves (0.60mm)

SECTION 8: Exposure controls/personal protection

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Wear long sleeves and other protective clothing to prevent repeated or prolonged skin contact.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter (EN 141)
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Solvent-like
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : 145°C (293°F) [Literature]
- Flammability (solid, gas)** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
- Upper/lower flammability or explosive limits** : Lower: 1,1%
Upper: 10,8%
- Flash point** : Closed cup: 38°C (100,4°F) [ASTM D 56]
- Auto-ignition temperature** : 460°C (860°F)
- Decomposition temperature** : Not available.
- pH** : Not applicable.
- pH : Justification** : Product is non-soluble (in water).
- Viscosity** : Dynamic: 150 mPa·s
- Solubility(ies)** : Insoluble in the following materials: cold water and hot water.
- Solubility in water** : Not applicable.
- Miscible with water** : No.
- Partition coefficient: n-octanol/ water** : Not applicable.

SECTION 9: Physical and chemical properties

| | |
|---------------------------------|--|
| Vapour pressure | : 1 kPa (7,50061 mm Hg) [room temperature] [calculated.] 3 kPa (22,50185 mm Hg) [50°C (122°F)] |
| Evaporation rate | : Not available. |
| Relative density | : 1,07 [calculated.] |
| Density | : 1,07 g/cm ³ [20°C (68°F)] [calculated.] |
| Vapour density | : Not available. |
| Explosive properties | : Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidising materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. |
| Oxidising properties | : Not available. |
| Particle characteristics | |
| Median particle size | : Not applicable. |

SECTION 10: Stability and reactivity

| | |
|--|---|
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| 10.5 Incompatible materials | : Reactive or incompatible with the following materials: oxidising materials |
| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO ₂ and smoke can be generated. |

SECTION 11: Toxicological information

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

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------|---------------------------------|--------------|-------------------------|----------|
| polyhexamethylene diisocyanate | LC50 Inhalation Dusts and mists | Rat | 18500 mg/m ³ | 1 hours |
| | LC50 Inhalation Dusts and mists | Rat - Female | 0,39 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| xylene (mixture of isomeres) | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 6670 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | 29091 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 4,2 g/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| 2-methoxy-1-methylethyl acetate | TDLo Dermal | Rabbit | 4300 mg/kg | - |
| | LC50 Inhalation Vapour | Rat | 4345 mg/l | 6 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 8532 mg/kg | - |

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SECTION 11: Toxicological information

| | | | | |
|-----------------------------|---------------------------------|--------|-------------------------|---------|
| hexamethylene-di-isocyanate | LC50 Inhalation Dusts and mists | Rat | 0,124 mg/m ³ | 4 hours |
| | LCLo Inhalation Dusts and mists | Rat | 60 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >7000 mg/kg | - |

Conclusion/Summary : Harmful if inhaled.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| High Traffic Floor Paint - Activator | N/A | N/A | N/A | 11 | N/A |
| polyhexamethylene diisocyanate | N/A | N/A | N/A | N/A | 1,5 |
| xylene (mixture of isomeres) | 4300 | 1100 | N/A | 11 | N/A |
| 2-methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |
| hexamethylene-di-isocyanate | 500 | N/A | N/A | 0,05 | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------------|------------------------------------|---------|-------|-------------------------|-------------|
| polyhexamethylene diisocyanate | Skin - Oedema | Rabbit | 1 | 4 hours | - |
| | Eyes - Cornea opacity | Rabbit | 1 | - | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 milligrams | - |
| xylene (mixture of isomeres) | Skin - Moderate irritant | Rabbit | - | 500 milligrams | - |
| | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| hexamethylene-di-isocyanate | Skin - Moderate irritant | Rabbit | - | 100 Percent | - |
| | Eyes - Moderate irritant | Rabbit | - | - | - |
| | Skin - Erythema/Eschar | Rabbit | 3 | - | - |
| | Eyes - Redness of the conjunctivae | Rabbit | 3 | - | - |

Conclusion/Summary

Skin : Causes skin irritation.

Eyes : Causes serious eye irritation.

Respiratory : May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|--------------------------------|-------------------|------------|-----------------|
| polyhexamethylene diisocyanate | skin | Guinea pig | Sensitising |
| | Respiratory | Guinea pig | Not sensitizing |
| hexamethylene-di-isocyanate | skin | Mouse | Sensitising |
| | skin | Guinea pig | Sensitising |
| | Respiratory | Guinea pig | Sensitising |

Conclusion/Summary

SECTION 11: Toxicological information

Skin : May cause an allergic skin reaction.

Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|--------------------------------|----------|---------------------------|----------|
| polyhexamethylene diisocyanate | OECD 471 | Subject: Bacteria | Negative |
| hexamethylene-di-isocyanate | OECD 476 | Subject: Mammalian-Animal | Negative |
| | OECD 471 | Experiment: In vitro | Negative |
| | OECD 476 | Subject: Bacteria | Negative |
| | OECD 474 | Experiment: In vitro | Negative |
| | OECD 476 | Subject: Mammalian-Animal | Negative |
| | OECD 474 | Experiment: In vivo | Negative |
| | | Subject: Mammalian-Animal | Negative |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
| hexamethylene-1,6-ddiisocyanate homopolymer | Category 3 | Not applicable. | Respiratory tract irritation |
| xylene (mixture of isomeres) | Category 3 | Not applicable. | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate | Category 3 | Not applicable. | Narcotic effects |
| hexamethylene-di-isocyanate | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|------------------------------|------------|-------------------|----------------|
| xylene (mixture of isomeres) | Category 2 | Not determined | Not determined |

Aspiration hazard

| Product/ingredient name | Result |
|------------------------------|--------------------------------|
| xylene (mixture of isomeres) | ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------------|---|---------|------------------------|---------------------------------------|
| polyhexamethylene diisocyanate | Chronic NOAEL Inhalation Dusts and mists | Rat | 3,3 mg/m ³ | 6 hours; 5 days per week Intermittent |
| | Sub-acute LCLo Inhalation Dusts and mists | Rat | 4,3 mg/m ³ | 6 hours; 5 days per week Intermittent |
| | Sub-chronic LC50 Inhalation Dusts and mists | Rat | 14,7 mg/m ³ | 6 hours; 5 days per week Intermittent |
| | Sub-acute LC50 Inhalation Dusts and mists | Rat | 89,9 mg/m ³ | 6 hours; 5 days per week Intermittent |
| hexamethylene-di-isocyanate | Chronic LCLo Inhalation Vapour | Rat | 0,025 p.p.m. | 30 days; 6 hours per day Intermittent |

Conclusion/Summary : Based on available data, the classification criteria are not met.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Endocrine disrupting properties : Not available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------|------------------------------------|---------------------------------|----------|
| polyhexamethylene diisocyanate | Acute EC50 >10000 mg/l | Bacteria | 3 hours |
| | Acute EC50 >100 mg/l | Daphnia spec. | 48 hours |
| | Acute IC50 >1000 mg/l | Algae - Scenedesmus subspicatus | 72 hours |
| xylene (mixture of isomeres) | Acute LC50 >100 mg/l | Fish | 96 hours |
| | Acute EC50 1,3 mg/l Fresh water | Algae | 72 hours |
| | Acute LC50 1 mg/l Fresh water | Daphnia spec. | 24 hours |
| | Acute NOEC 0,44 mg/l | Algae | 72 hours |
| 2-methoxy-1-methylethyl acetate | Chronic NOEC 0,96 mg/l Fresh water | Daphnia spec. | 21 days |
| | Acute EC50 408 to 500 mg/l | Daphnia spec. | 48 hours |
| | Acute LC50 161 mg/l | Fish | 96 hours |
| hexamethylene-di-isocyanate | Acute LC50 100 to 180 mg/l | Fish | 96 hours |
| | Acute EC50 >77,4 mg/l | Algae | 72 hours |
| | Acute EC50 842 mg/l | Bacteria | 3 hours |

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---------------------------------|---|-----------------------------|------|----------|
| polyhexamethylene diisocyanate | OECD 301C | 2 % - Not readily - 28 days | - | - |
| xylene (mixture of isomeres) | - | 90 % - Readily - 5 days | - | - |
| | OECD 301F | 87,8 % - 28 days | - | - |
| 2-methoxy-1-methylethyl acetate | OECD 302B | 100 % - Inherent - 8 days | - | - |
| | OECD 301F | 42 % - 10 days | - | - |
| hexamethylene-di-isocyanate | EU 301F Ready Biodegradability - Manometric Respirometry Test | 42 % - 28 days | - | - |

Conclusion/Summary : This product has not been tested for biodegradation. Based on available data, the classification criteria are not met.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------|-----------------------------|------------------|------------------|
| polyhexamethylene diisocyanate | Fresh water 0,32 days, 23°C | 50%; 0.49 day(s) | Not readily |
| xylene (mixture of isomeres) | - | - | Readily |
| 2-methoxy-1-methylethyl acetate | - | - | Inherent |
| hexamethylene-di-isocyanate | - | - | Not readily |

12.3 Bioaccumulative potential

SECTION 12: Ecological information

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---------------------------------|--------------------|-------------|-----------|
| polyhexamethylene diisocyanate | 5,54 | 367,7 | low |
| xylene (mixture of isomeres) | 3,12 | 8.1 to 25.9 | low |
| 2-methoxy-1-methylethyl acetate | 1,2 | - | low |
| hexamethylene-di-isocyanate | 0,02 | 57,63 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Volatile.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties : No known significant effects or critical hazards.

12.7 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

High Traffic Floor Paint - Activator

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|--|--|--|---|---|
| 14.1 UN number or ID number | UN1866 | UN1866 | UN1866 | UN1866 |
| 14.2 UN proper shipping name | Resin solution, flammable | Resin solution, flammable | Resin solution, flammable | Resin solution, flammable |
| 14.3 Transport hazard class(es) | 3  | 3  | 3  | 3  |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| <u>Additional information</u> | Limited quantity 5L Tunnel code (D/E) | | Emergency schedules F-E+S-E. Remarks : ≤ 5L: Limited Quantity - IMDG 3.4 | Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. |

14.6 Special precautions for user : **Transport within 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 an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

High Traffic Floor Paint - Activator

SECTION 15: Regulatory information

Other EU regulations

VOC for Ready-for-Use Mixture : II A/j. Two-pack reactive performance coatings for specific end use such as floors.
EU limit value for this product : 500g/l (2010.)
This product contains a maximum of 500 g/l VOC.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EC)

Not listed.

Prior Informed Consent (PIC) (649/2012/EC)

Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| Category |
|----------|
| P5c |

Ireland

References : Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)
Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of 2001)
Safety, Health and Welfare at Work (General Application) Regulations 2007
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878
REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

International regulations

Stockholm Convention on Persistent Organic Pollutants

| List name | Ingredient name | Status |
|-------------|-----------------|--------|
| Not listed. | | |

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

| List name | Ingredient name | Status |
|-------------|-----------------|--------|
| Not listed. | | |

CN code : 3208 90 91 00

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

High Traffic Floor Paint - Activator

SECTION 15: Regulatory information

| | |
|--------------------------|---|
| China | : All components are listed or exempted. |
| Europe | : All components are listed or exempted. |
| Japan | : Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : Not determined. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : All components are listed or exempted. |
| Republic of Korea | : All components are listed or exempted. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : All components are listed or exempted. |
| United States | : Not determined. |
| Viet Nam | : Not determined. |

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

| | |
|-----------------------------------|--|
| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative |
|-----------------------------------|--|

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---------------------|-----------------|
| Flam. Liq. 3, H226 | Expert judgment |
| Acute Tox. 4, H332 | Expert judgment |
| Skin Irrit. 2, H315 | Expert judgment |
| Eye Irrit. 2, H319 | Expert judgment |
| Skin Sens. 1, H317 | Expert judgment |
| STOT SE 3, H335 | Expert judgment |
| STOT RE 2, H373 | Expert judgment |

Full text of abbreviated H statements

Ireland

| | |
|--|---|
| Full text of abbreviated H statements | : H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated |
|--|---|

High Traffic Floor Paint - Activator

SECTION 16: Other information

exposure.

[Full text of classifications \[CLP/GHS\]](#)

| | |
|---------------|---|
| Acute Tox. 1 | ACUTE TOXICITY - Category 1 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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[Notice to reader](#)

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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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.