Pittaway
SPECIAL COATINGS LIMITED

**SAFETY DATA SHEET**

According to the REACH Regulation (EC) 1907/2006
amended by Regulation (EU) 2020/878
Issue date: 10/08/2023 Version: 1.0

# Ilumitex® 2 Pack Water Based Lacquer- Activator

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

### 1.1 Product Identifier

Product form: Mixture
Product name: ANTI-GRAFFITI CLEAR GLAZE KIT - ACTIVATOR
UFI: FNMP-6223-300Y-13J9
Type of product: Hardener
Product group: Blend
Other means of identification: ACTIVATOR

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

**1.2.1. Relevant identified uses**
No additional information available

**1.2.2. Uses advised against**
No additional information available

### 1.3. Details of the supplier of the safety data sheet

**Pittaway Special Coatings Ltd.**
106-114 Flinton Street
Hull HU3 4NA
England

T: +44 01482 329007
E: info@ilumitex.co.uk

### 1.4. Emergency telephone number

**Emergency number:** +44 01482 329007

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity (inhal.), Category 4 H332
Skin sensitisation, Category 1 H317
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335

*Full text of H- and EUH-statements: see section 16*

**Adverse physicochemical, human health and environmental effects**
Harmful if inhaled. May cause respiratory irritation. May cause an allergic skin reaction.

## 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP):

GHS07

| | |
|---|---|
| Signal word (CLP): | Warning |
| Contains: | HEXAMETHYLENE-DI-ISOCYANATE; Hexamethylene diisocyanate, oligomers; Hexamethylene diisocyanate oligomers, Isocyanurate |
| Hazard statements (CLP): | H317 - May cause an allergic skin reaction.<br>H332 - Harmful if inhaled.<br>H335 - May cause respiratory irritation. |
| Precautionary statements (CLP): | P101 - If medical advice is needed, have product container or label at hand.<br>P102 - Keep out of reach of children.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Extra phrases: | For professional users only. |

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Hexamethylene diisocyanate oligomers, Isocyanurate substance with national workplace exposure limit(s) (GB) | CAS-No.: 28182-81-2<br>EC-No.: 931-274-8<br>REACH-no: 012119485796-17 | ≥ 50 – < 80 | Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |
| Hexamethylene diisocyanate, oligomers substance with national workplace exposure limit(s) (GB) | CAS-No.: 28182-81-2<br>EC-No.: 500-060-2 | ≥ 30 – < 50 | Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Sens. 1, H317<br>STOT SE 3, H33 |
| HEXAMETHYLENE-DI-ISOCYANATE | CAS-No.: 822-06-0<br>EC-No.: 212-485-8<br>REACH-no: 012119457571-37 | < 1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Acute Tox. 1 (Inhalation), H330 (ATE=0.005 mg/l/4h)<br>Acute Tox. 3 (Inhalation:dust,mist), H331 (ATE=0.005 mg/l/4h)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

# SECTION 4: First aid measures

## 4.1. Description of first aid measures

First-aid measures general: Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: May cause an allergic skin reaction.

## 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:.....Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire:.....Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting:.....Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel:

Emergency procedures:.....Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders:

Protective equipment:.....Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up:.....Take up liquid spill into absorbent material.

Other information:.....Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling: Use only indoors in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| Hexamethylene diisocyanate, oligomers (28182-81-2) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 0.02 mg/m³ |
| WEL STEL (OEL STEL) | 0.07 mg/m³ |

| Hexamethylene diisocyanate oligomers, Isocyanurate (28182-81-2) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [2] | 0.02 ppm |
| WEL STEL (OEL STEL) [ppm] | 0.07 ppm |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

**8.2.1. Appropriate engineering controls**

Appropriate engineering controls:..... Ensure good ventilation of the work station.

**8.2.2. Personal protection equipment**

Personal protective equipment symbol(s):

**8.2.2.1. Eye and face protection**

Eye protection:..... Safety glasses

**8.2.2.2. Skin protection**

Skin and body protection:..... Wear suitable protective clothing

Hand protection:..... Protective gloves. Nitrile rubber gloves. The breakthrough time of the selected gloves must be greater than the intended use period.

**8.2.2.3. Respiratory protection**

Respiratory protection:..... [In case of inadequate ventilation] wear respiratory protection.

**8.2.2.4. Thermal hazards**..... No additional information available

**8.2.3. Environmental exposure controls**

Environmental exposure controls:..... Avoid release to the environment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state:..... Liquid
Colour:..... Light (or pale).
Appearance:..... Clear, yellowish liquid.
Odour:..... Not available
Odour threshold:..... Not available
Melting point:..... Not applicable
Freezing point:..... Not available
Boiling point:..... Not available
Flammability:..... Non flammable.
Lower explosion limit:..... Not available
Upper explosion limit:..... Not available
Flash point:..... > 120 °C OC (Open cup).
Auto-ignition temperature:..... Not available
Decomposition temperature:..... Not available
pH:..... Not available
Viscosity, kinematic:..... Not available
Solubility:..... Miscible with water.
Partition coefficient n-octanol/water (Log Kow):Not available
Vapour pressure:..... Not available
Vapour pressure at 50°C:..... Not available
Density:..... Not available
Relative density:..... 1.14 @ 20°C

Relative vapour density at 20°C: ..... Not available
Particle characteristics: ..... Not applicable

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

VOC content: ..... ≈ 0 g/l

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Harmful if inhaled.

| 204/WB101 - ANTI-GRAFFITI CLEAR GLAZE KIT - ACTIVATOR | |
|---|---|
| ATE CLP (gases) | 4500 ppmv/4h |
| ATE CLP (vapours) | 11 mg/l/4h |
| ATE CLP (dust,mist) | 1.5 mg/l/4h |

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: May cause respiratory irritation.

| HEXAMETHYLENE-DI-ISOCYANATE (822-06-0) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

| Hexamethylene diisocyanate, oligomers (28182-81-2) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

| Hexamethylene diisocyanate oligomers, Isocyanurate (28182-81-2) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

### 11.2. Information on other hazards

No additional information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute): Not classified
Hazardous to the aquatic environment, long–term (chronic): Not classified
Not rapidly degradable

## 12.2. Persistence and degradability

No additional information available.

## 12.3. Bioaccumulative potential

No additional information available.

## 12.4. Mobility in soil

No additional information available.

## 12.5. Results of PBT and vPvB assessment

No additional information available.

## 12.6. Endocrine disrupting properties

No additional information available.

## 12.7. Other adverse effects

No additional information available.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods: ..... Dispose of contents/container in accordance with licensed collector's sorting instructions.

HP Code:..... HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

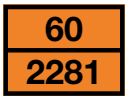
| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number UN 2281** | | | | |
| UN 2281 | UN 2281 | UN 2281 | UN 2281 | UN 2281 |
| **14.2. UN proper shipping name** | | | | |
| HEXAMETHYLENE DIISOCYANATE | HEXAMETHYLENE DIISOCYANATE | HEXAMETHYLENE DIISOCYANATE | HEXAMETHYLENE DIISOCYANATE | HEXAMETHYLENE DIISOCYANATE |
| **Transport document description** | | | | |
| UN 2281 HEXAMETHYLENE DIISOCYANATE, 6.1, II, (D/E) | UN 2281 HEXAMETHYLENE DIISOCYANATE, 6.1, II | UN 2281 Hexamethylene diisocyanate, 6.1, II | UN 2281 HEXAMETHYLENE DIISOCYANATE, 6.1, II | UN 2281 HEXAMETHYLENE DIISOCYANATE, 6.1, II |
| **14.3. Transport hazard class(es)** | | | | |
| 6.1  | 6.1  | 6.1  | 6.1  | 6.1  |
| **14.4. Packing group** | | | | |
| II | II | II | II | II |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

## 14.6. Special precautions for user

**Overland transport**

Classification code (ADR): T1
Limited quantities (ADR): 100ml
Excepted quantities (ADR): E4
Packing instructions (ADR): P001, IBC02
Mixed packing provisions (ADR): MP15
Portable tank and bulk container instructions (ADR): T7"
Portable tank and bulk container special provisions (ADR): TP2
Tank code (ADR): L4BH
Tank special provisions (ADR): TU15, TE19
Vehicle for tank carriage: AT
Transport category (ADR): 2
Special provisions for carriage - Loading, unloading and handling (ADR): CV13, CV28

Special provisions for carriage -
Operation (ADR): S9, S19
Hazard identification number (Kemler No.): 60
Orange plates:




Tunnel restriction code (ADR): D/E
EAC code: 2Z

### Transport by sea

Limited quantities (IMDG): 100 ml
Excepted quantities (IMDG): E4
Packing instructions (IMDG): P001
IBC packing instructions (IMDG): IBC02
Tank instructions (IMDG): T7
Tank special provisions (IMDG): TP2, TP13
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-A
Stowage category (IMDG): C
Stowage and handling (IMDG): SW2, H1
Properties and observations (IMDG): Colourless to light yellow liquid with a pungent odour. Immiscible with water but reacts with it, evolving heat and carbon dioxide gas. When heated, evolves toxic nitrous fumes. Toxic if swallowed, by skin contact or by inhalation. Irritating to skin, eyes and mucous membranes.

### Air transport

PCA Excepted quantities (IATA): E4
PCA Limited quantities (IATA): Y641
PCA limited quantity max net quantity (IATA): 1L
PCA packing instructions (IATA): 654
PCA max net quantity (IATA): 5L
CAO packing instructions (IATA): 1662
CAO max net quantity (IATA): 60L
ERG code (IATA): 6L

### Inland waterway transport

Classification code (ADN): T1
Special provisions (ADN): 802
Limited quantities (ADN): 100 ml
Excepted quantities (ADN): E4
Equipment required (ADN): PP, EP, TOX, A
Ventilation (ADN): VE02
Number of blue cones/lights (ADN): 2

### Rail transport

Classification code (RID: T1
Limited quantities (RID): 100ml
Excepted quantities (RID): E4
Packing instructions (RID): P001, IBC02
Mixed packing provisions (RID): MP15
Portable tank and bulk container instructions (RID): T7
Portable tank and bulk container special provisions (RID): TP2
Tank codes for RID tanks (RID): L4BH
Special provisions for RID tanks (RID): TU15
Transport category (RID): 2
Special provisions for carriage - Loading, unloading and handling (RID): CW13, CW28, CW31
Colis express (express parcels) (RID): CE5
Hazard identification number (RID): 60

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**
Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**VOC Directive (2004/42)**
VOC content:.....≈ 0 g/l

**Explosives Precursors Regulation (2019/1148)**
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**
Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations
No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

| Abbreviations and acronyms | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |

## SECTION 16: Other information

| Abbreviations and acronyms | |
|---|---|
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Data sources:..... ECHA (European Chemicals Agency). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Supplier's safety documents.

| Full text of H- and EUH-statements | |
|---|---|
| Acute Tox. 1 (Inhalation) | Acute toxicity (inhal.), Category 1 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

The classification complies with:..... ATP 12

Safety Data Sheet (SDS), EU..... This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.