# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name : UV LED PRIMAIRE ADHESION GREY, POUR MARQUAGE A CHAUD

Product code : UVLED5000G.

This MSDS is valid for all packaging of this product.

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

SCREENPRINTING INK, PAD PRINTING INK

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

Registered company name : ITW CER.

Address : 85 RUE CASTELLION.

01117.OYONNAX.FRANCE.

Telephone : + 33 (0)4 74 73 26 40.

www.itwids.com

### 1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

### Other emergency numbers

Swiss emergency telephone number: 145 (Swiss Toxicological Information Centre)

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

### 2.2. Label elements

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :

GHS07

Signal Word :

WARNING

Product identifiers :

| | |
|---|---|
| EC 235-921-9 | HEXAMETHYLENE DIACRYLATE |
| 015-189-00-5 | PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE |

Hazard statements :

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements - Prevention :

| | |
|---|---|
| P280 | Wear protective gloves/eye protection. |

Precautionary statements - Response :

| | |
|---|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

**Composition :**

| Identification | (EC) 1272/2008 | Note | % |
|---|---|---|---|
| CAS: 13048-33-4<br>EC: 235-921-9<br>REACH: 01-2119484737-22-XXXX<br><br>HEXAMETHYLENE DIACRYLATE | GHS07<br>Wng<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412 | | 25 <= x % < 50 |
| CAS: 1317-65-3<br>EC: 215-279-6<br><br>LIMESTONE | | [1] | 2.5 <= x % < 10 |
| CAS: 13463-67-7<br>EC: 236-675-5<br>REACH: 01-2119489379-17-XXXX<br><br>DIOXYDE DE TITANE | | [1] | 2.5 <= x % < 10 |
| INDEX: 015-189-00-5<br>CAS: 162881-26-7<br>EC: 423-340-5<br>REACH: 01-2119489401-38-XXXX<br><br>PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE | GHS07<br>Wng<br>Skin Sens. 1, H317<br>Aquatic Chronic 4, H413 | | 1 <= x % < 2.5 |

(Full text of H-phrases: see section 16)

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. Description of first aid measures

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide ($CO_2$)

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide ($CO_2$)

**5.3. Advice for firefighters**

No data available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

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

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

**Packaging**

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Occupational exposure limits :**

- France (INRS - ED984 :2016) :

| CAS | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|---|---|---|---|---|---|---|
| 1317-65-3 | - | 10 | - | - | - | - |
| 13463-67-7 | - | 10 | - | - | - | - |

- Switzerland (SUVAPRO 2017) :

| CAS | VME | VLE | Valeur plafond | Notations | | |
|---|---|---|---|---|---|---|
| 1317-65-3 | 3 a | - | - | - | - | - |
| 13463-67-7 | 3 a mg/m³ | | | SSC | | |

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|---|---|---|---|---|---|
| 1317-65-3 | - ppm<br>4 mg/m³ | - ppm<br>- mg/m³ | | | |
| 13463-67-7 | - ppm<br>4 mg/m³ | - ppm<br>- mg/m³ | | | |

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE (CAS: 162881-26-7)

| **Final use:** | **Workers.** |
|---|---|
| Exposure method: | Dermal contact. |
| Potential health effects: | Short term systemic effects. |
| DNEL : | 3.3 mg/kg body weight/day |
| | |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |

| | |
|---|---|
| DNEL : | 3.3 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Short term systemic effects. |
| DNEL : | 21 mg of substance/m3 |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 21 mg of substance/m3 |
| **Final use:** | **Consumers.** |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 1.5 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 1.5 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 5.2 mg of substance/m3 |

DIOXYDE DE TITANE (CAS: 13463-67-7)

| | |
|---|---|
| **Final use:** | **Workers.** |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term local effects. |
| DNEL : | 10 mg of substance/m3 |
| **Final use:** | **Consumers.** |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 700 mg/kg body weight/day |

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

| | |
|---|---|
| **Final use:** | **Workers.** |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 2.77 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 24.5 mg of substance/m3 |
| **Final use:** | **Consumers.** |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 2.08 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 1.66 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 7.24 mg of substance/m3 |

**Predicted no effect concentration (PNEC):**

DIOXYDE DE TITANE (CAS: 13463-67-7)

| | |
|---|---|
| Environmental compartment: | Soil. |
| PNEC : | 100 mg/kg |
| Environmental compartment: | Fresh water. |
| PNEC : | 0.184 mg/l |
| Environmental compartment: | Sea water. |
| PNEC : | 0.0184 mg/l |
| Environmental compartment: | Intermittent waste water. |
| PNEC : | 0.193 mg/l |
| Environmental compartment: | Fresh water sediment. |
| PNEC : | 1000 mg/kg |
| Environmental compartment: | Marine sediment. |
| PNEC : | 100 mg/kg |
| Environmental compartment: | Waste water treatment plant. |
| PNEC : | 100 mg/l |

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

| | |
|---|---|
| Environmental compartment: | Soil. |
| PNEC : | 0.00397 mg/kg |
| Environmental compartment: | Fresh water. |
| PNEC : | 0.0015 mg/l |
| Environmental compartment: | Sea water. |
| PNEC : | 0.00015 mg/l |
| Environmental compartment: | Fresh water sediment. |
| PNEC : | 0.0243 mg/kg |
| Environmental compartment: | Marine sediment. |
| PNEC : | 0.00243 mg/kg |
| Environmental compartment: | Waste water treatment plant. |
| PNEC : | 2.7 mg/l |

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**General information :**

| | |
|---|---|
| Physical state : | Viscous liquid. |

**Important health, safety and environmental information**

| | |
|---|---|
| pH : | Not stated.<br>Neutral. |
| Boiling point/boiling range : | Not specified. |
| Flash point interval : | Not relevant. |
| Vapour pressure (50°C) : | Below 110 kPa (1.10 bar). |
| Density : | > 1 |
| Water solubility : | Insoluble. |
| Melting point/melting range : | Not specified. |
| Self-ignition temperature : | Not specified. |
| Decomposition point/decomposition range : | Not specified. |

### 9.2. Other information

| | |
|---|---|
| VOC (g/l) : | 1.60 |

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

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

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

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

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

May cause an allergic reaction by skin contact.

#### 11.1.1. Substances

No toxicological data available for the substances.

#### 11.1.2. Mixture

No toxicological data available for the mixture.

## SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

### 12.1. Toxicity

#### 12.1.1. Substances

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

| | |
|---|---|
| Fish toxicity : | LC50 > 1 mg/l<br>Duration of exposure : 96 h |
| Algae toxicity : | ECr50 > 1 mg/l<br>Duration of exposure : 72 h |

#### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

#### 12.2.1. Substances

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

| | |
|---|---|
| Biodegradability : | no degradability data is available, the substance is considered as not degrading quickly. |

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

**14.1. UN number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

## SECTION 15 : REGULATORY INFORMATION

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

This product contains substances for which Chemical Safety Assessments are still to be received

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

I> Indicates changes from previous version

**Wording of the phrases mentioned in section 3 :**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
GHS07 : Exclamation mark
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.