

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010



Article No.: 581046
Print date: 09.10.2020
Version: 3.0

UV PIGMENT PASTE - BLACK
Revision date: 21.07.2016
Issue date: 26.02.2015

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 581046
Identification of the substance or mixture UV PIGMENT PASTE - BLACK

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

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

Supplier (manufacturer/importer/downstream user/distributor):

Teknos (M) Sdn. Bhd.
PLO 577, Jalan Keluli 8 Telephone: +60 7 251 5115
Kawasan Perindustrian Pasir Gudang Telefax: +60 7 251 3115
81700 Pasir Gudang, Johor, Malaysia

Dept. responsible for information:

Laboratory
E-mail: prod-safe@teknos.com

1.4. **Emergency telephone number**

Emergency telephone: +60 7 251 5115
Only available during office hours.

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

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

This substance is classified as dangerous according to regulation (EC) No 1272/2008 [CLP].

| | | |
|----------------------|--|--------------------------------------|
| Acute Tox. 4 / H332 | Acute toxicity (inhalative) | Harmful if inhaled. |
| Skin Irrit. 2 / H315 | skin corrosion/irritation | Causes skin irritation. |
| Eye Dam. 1 / H318 | Serious eye damage/eye irritation | Causes serious eye damage. |
| Skin Sens. 1 / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| STOT SE 3 / H335 | Specific target organ toxicity (single exposure) | May cause respiratory irritation. |

Classification according to Directive 67/548/EEC or 1999/45/EC

The substance is classified as not hazardous according to Directive 67/548/EEC.

2.2. **Label elements**

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

Hazard pictograms



Danger

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.
P501 Dispose of contents/container to industrial incineration plant.

contains:

Black pigment

Supplemental Hazard information (EU)

not applicable

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Labelling (67/548/EEC or 1999/45/EC)

Hazard statements

Precautionary statements

contains:

Special provisions concerning the labelling of certain mixtures

2.3. **Other hazards**

SECTION 3: Composition / information on ingredients

3.1. **Substances**

Product description / chemical characterization

Description

Hazardous ingredients

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

| EC No. | REACH No. | Wt % |
|-----------|--|----------|
| CAS No. | Chemical name | Remark |
| INDEX No. | classification | |
| | Black pigment | 50 - 100 |
| | Flam. Liq. 3 H226 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / STOT SE 3 H335 / STOT SE 3 H336 | |

Classification according to Directive 67/548/EEC or 1999/45/EC

| EC No. | REACH No. | Wt % |
|-----------|----------------|--------|
| CAS No. | Chemical name | Remark |
| INDEX No. | classification | |

Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

INDEX No. not applicable / CAS No.

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used:

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state Liquid
Colour refer to label
Odour characteristic

Safety relevant basis data

| | Unit | Method | Remark |
|-------------------------------------|------------------------|-----------|--------|
| Flash point: | > 70 °C | DIN 53213 | |
| Ignition temperature in °C: | not determined °C | | |
| Lower explosion limit: | not determined Vol-% | | |
| Upper explosion limit: | not determined Vol-% | | |
| Vapour pressure at 25 °C:: | not determined mbar | | |
| Density at 25 °C:: | 1.00 g/cm ³ | | |
| Water solubility (g/L): | insoluble | | |
| pH at 25 °C:: | - | | |
| Viscosity at 25 °C:: | > 24 s 4 mm | DIN 53211 | |
| Solvent separation test (%): | < 3 % | ADR/RID | |
| Solid content (%): | 40.00 Wt % | | |
| solvent content: | | | |
| Organic solvents: | 3.00 Wt % | | |
| Water: | 57.00 Wt % | | |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

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10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled.

:

Irritant and corrosive effects

Causes skin irritation.

Causes serious eye damage.

Sensitisation

May cause an allergic skin reaction.

:

Specific target organ toxicity

May cause respiratory irritation.

:

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12: Ecological information

overall evaluation

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

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- 12.3. **Bioaccumulative potential**
Toxicological data are not available.
- 12.4. **Mobility in soil**
Toxicological data are not available.
- 12.5. **Results of PBT and vPvB assessment**
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
- 12.6. **Other adverse effects**

SECTION 13: Disposal considerations

- 13.1. **Waste treatment methods**
Appropriate disposal / Product Recommendation
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
- List of proposed waste codes/waste designations in accordance with EWC**
140603* other solvents and solvent mixtures
- packaging Recommendation**
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

- 14.1. **UN number**
not applicable
- 14.2. **UN proper shipping name**
- 14.3. **Transport hazard class(es)**
not applicable
- 14.4. **Packing group**
not applicable
- 14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable
- 14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**
tunnel restriction code -
- Sea transport (IMDG)**
EmS-No. not applicable
- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
not applicable

SECTION 15: Regulatory information

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU legislation
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).
VOC-value (in g/L) ISO 11890-2: 1000.000

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VOC-value (in g/L) ASTM D 2369: 1000.000

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. **Chemical Safety Assessment**

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant R-and H-phrases (Number and full text):

| | | |
|----------------------|--|--------------------------------------|
| Flam. Liq. 3 / H226 | Flammable liquids | Flammable liquid and vapour. |
| Acute Tox. 4 / H332 | Acute toxicity (inhalative) | Harmful if inhaled. |
| Skin Irrit. 2 / H315 | skin corrosion/irritation | Causes skin irritation. |
| Eye Dam. 1 / H318 | Serious eye damage/eye irritation | Causes serious eye damage. |
| Skin Sens. 1 / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| STOT SE 3 / H335 | Specific target organ toxicity (single exposure) | May cause respiratory irritation. |
| STOT SE 3 / H336 | Specific target organ toxicity (single exposure) | May cause drowsiness or dizziness. |

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.