# PAINT: BLACK, ESD UNDERCOAT

**DSF 2.1.10**

TWO PACK ACRYLIC PAINT

| Issue | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|---|---|---|
| DCR | | | | | | | | |

EQUES COATINGS
Eques Coatings B.V.
P.O. Box 222, 5340 AE Oss

**SPRAY INSTRUCTION TWO-COMPONENT PAINT,**

**CODE NUMBER: 1322 038 41694 (DEK: DSF 2.1.10)**

| | | | |
|---|---|---|---|
| Components | : | 100 kg pigmentsuspension | 1322 038 41694 |
| | | 8 kg Hardener | 1330 500 55202 |

**Mix the components before use.**
**The potlife of the mixed paint is about 8 hours.**

| | | |
|---|---|---|
| Spraying viscosity | : | 20 - 22 Din-4 |
| Thinner | : | 1322 526 73001 |
| Spray gun | : | Preferably air gun. |
| Nozzle aperture | : | 1,5 mm ϕ |
| Spraying pressure | : | 3 bar |
| Dry film thickness | : | 15 - 20 µm |
| Drying | : | Flash off for 10 min at roomtemp.<br>Dry for 30 minutes at 70°C |

Remarks: Application of a second layer should take place within 24 hours.

Clean spraying equipment immediately after use with thinner 1322 526 73001.

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**Colour: Black, ESD undercoat**

**Coductivity: < 50 kΩ / □**

**Gloss: 4 - 6, according ISO 2813 (60°).**

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1322 038 41694 (9609)
SH 112 - 1 (1)


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# MATERIAL SAFETY DATA SHEET

**According EC 91/155**

## 1. Identification of the substance/preparation

**MSDS** : 14245
**Product code 12nc** : 1322 038 41694
**Supplier** : EQUES COATINGS B.V.
**Tradename** : PRIMER, BLACK
**General description** : ACRYLATE RESIN PAINT
**Use** : Miscellaneous
**Publicationdate** : 2000-02-01

Emergency phonenumber +31 (0)497-598315

## 2. Composition/information on ingredients

| Component | CAS-number | EC-number | Percentage | EC-label |
|---|---|---|---|---|
| METHYLPROPAN-2-OL, 2- | 75-65-0 | 200-889-7 | ≤10.0 % | F,Xn;R: 11-20 |
| BUTYL ACETATE, N- | 123-86-4 | 204-658-1 | ≥25.0 % | R: 10-66-67 |
| BUTANONE | 78-93-3 | 201-159-0 | ≤13.0 % | F,Xi;R: 11-36-66-67 |
| XYLENE | 1330-20-7 | 215-535-7 | ≤7.5 % | Xn;R: 10-20/21-38 |
| BUTOXYPROPAN-2-OL, 3- | 5131-66-8 | 225-878-4 | ≤7.0 % | Xi;R: 36/38 |

## 3. Hazard identification

**R-phrases**
- Highly flammable.
- Repeated exposure may cause skin dryness or cracking.
- Vapours may cause drowsiness and dizziness.

## 4. First-aid measures

**Skin** : Remove residue substance as soon as possible from the skin (f.i. rinse with much water).
**Ingestion** : Let drink 1 or 2 glasses of water. In case of general disorders call for a doctor.
**Inhalation** : Bring the victim into the fresh air as soon as possible, let rest and if necessary call for a doctor.
**Eyes** : Rinse for a long time with much water. In case of eye-sight disturbances consult a doctor.
**Remarks first aid** : none

## 5. Fire fighting measures

**Fire-extinguisher** : carbon dioxide, extinguishing powder, water spray, alcohol resistant foam
**Hazardous decomposition products in fire** : carbon monoxide

## 6. Accidental_release measures

**Spillage procedure** : Absorb the liquid in appropriate absorbent (e.g. Powersorb, dry sand, diatomite, vermiculite etc.), shovel the mixture into plastic bags and remove to the central depot for hazardous waste.
**Emergency procedure** : not applicable

## 7. Handling and storage

**Local exhausting** : Depends on processing circumstances, but at least good room ventilation.
**Storage conditions** : Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

## 8. Exposure controls/personal protection

**Exposure limits :**

| | | |
|---|---|---|
| TLV: | 300 mg/m3 | METHYLPROPAN-2-OL, 2- |
| | applicable to: Netherlands (20 °C; 1013 mbar) | |
| TLV: | 307 mg/m3 | METHYLPROPAN-2-OL, 2- |
| | applicable to: Belgium (20 °C; 1013 mbar) | |
| TLV: | 300 mg/m3 | METHYLPROPAN-2-OL, 2- |
| | applicable to: United States (25 °C; 1013 mbar) | |
| TLV: | 710 mg/m3 | BUTYL ACETATE, N-(With moistered air acetic acid and n-butanol are formed). |
| | applicable to: Netherlands (20 °C; 1013 mbar) | |
| TLV: | 723 mg/m3 | BUTYL ACETATE, N-(With moistered air acetic acid and n-butanol are formed). |
| STEL: | 964 mg/m3 | BUTYL ACETATE, N-(With moistered air acetic acid and n-butanol are formed). |
| | applicable to: Belgium (20 °C; 1013 mbar) | |
| TLV: | 710 mg/m3 | BUTYL ACETATE, N-(With moistered air acetic acid and n-butanol are formed). |
| STEL: | 950 mg/m3 | BUTYL ACETATE, N-(With moistered air acetic acid and n-butanol are formed). |
| | applicable to: United States (25 °C; 1013 mbar) | |
| TLV: | 950 mg/m3 | BUTYL ACETATE, N-(With moistered air acetic acid and n-butanol are formed). |
| | applicable to: Germany (25 °C; 1013 mbar) | |
| TLV: | 590 mg/m3 | S BUTANONE |
| | applicable to: Netherlands (20 °C; 1013 mbar) | |
| TLV: | 599 mg/m3 | BUTANONE |
| STEL: | 898 mg/m3 | BUTANONE |
| | applicable to: Belgium (20 °C; 1013 mbar) | |
| TLV: | 590 mg/m3 | BUTANONE |
| STEL: | 880 mg/m3 | BUTANONE |
| | applicable to: United States (25 °C; 1013 mbar) | |
| TLV: | 600 mg/m3 | S BUTANONE |
| | applicable to: Germany (25 °C; 1013 mbar) | |
| TLV: | 210 mg/m3 | S XYLENE |
| | applicable to: Netherlands (20 °C; 1013 mbar) | |
| TLV: | 440 mg/m3 | XYLENE(all isomers) |
| STEL: | 660 mg/m3 | XYLENE(all isomers) |
| | applicable to: Belgium (20 °C; 1013 mbar) | |
| TLV: | 430 mg/m3 | XYLENE |
| STEL: | 650 mg/m3 | XYLENE |
| | applicable to: United States (25 °C; 1013 mbar) | |

not determined BUTOXYPROPAN-2-OL, 3-

C=Ceiling; S=Skin

**Remarks exposure limits :**

none

**Odour threshold (20°C; 1013 mbar) :**

| | |
|---|---|
| ≥9.24 - ≤3080 mg/m3 | METHYLPROPAN-2-OL, 2- |
| ≥0.290 - ≤33.81 mg/m3 | BUTYL ACETATE, N- |
| ≥6 - ≤255 mg/m3 | BUTANONE |
| 0.22 mg/m3 | XYLENE |

**Advised personal protection :**

skin : butyl rubber gloves
eyes : safety goggles
inhalation : none (when sufficient exhausting)

## 9. Physical and chemical properties

| | |
|---|---|
| **Physical state** | : liquid |
| **Colour** | : type dependent |
| **Odour** | : specific |
| **Vapor rate/range** | : not traceable |
| **Boiling point/range** | : ≥79 °C (1013 mbar) |
| **Melting point/range** | : not traceable |
| **Flash point/range** | : ≤21 °C |
| **Explosive limits** | : LEL: ≥1 vol.% - UEL: ≤11.5 vol.% |
| **Dust explosions possible in air** | : not applicable |
| **Relative density** | : ≥0.85000 - ≤1.14000 (water=1) (20 °C) |
| **Vapour pressure** | : 10.5 kPa (20 °C) |
| **Solubility in water** | : partial |
| **Solubility in fat** | : not traceable |
| **pH** | : ≥5 - ≤9 |
| **Viscosity** | : type dependent |
| **Autoignition temperature** | : >260 °C |
| **Decomposition temperature** | : not traceable |
| **Electrostatic chargement** | : not traceable |

## 10. Stability and reactivity

| | |
|---|---|
| **Conditions to avoid** | : none |
| **Reactions with water** | : no |
| **Hazardous reactions with** | : oxidizing substances |
| **Hazardous decomposition products at heating** | : none |

## 11. Toxicological information

**Symptoms**

| | | | |
|---|---|---|---|
| Skin | local | : | The substance is prickling: redness. |
| | | : | With intensive skin contact risk of skin affection. |
| | general | : | The substance may be absorbed via the skin. |
| | | : | No absorbtion worth mentioning under normal working conditions. |
| Ingestion | local | : | The substance is prickling: abdominal pain, nausea. |
| | general | : | The substance may be absorbed after ingestion. |
| | | : | For phenomena, see inhalation general. |
| Inhalation | local | : | The vapour and the fumes are prickling: coughing, shortness of breath. |
| | general | : | The substance may be absorbed after inhalation. |
| | | : | The vapour is intoxicating: headache, drowsiness, dizziness. |
| Eyes | local | : | The substance is irritating: redness, pain, poor vision. |

Remarks symptoms : The substance has an effect on: the nervous system.

**Toxicity** : LD-50: 3.5 g/kg (ORL-RAT), METHYLPROPAN-2-OL, 2-
LD-50: 10.78 g/kg (ORL-RAT), BUTYL ACETATE, N-
LC-50: 2000 ppm/4H (IHL-RAT), BUTYL ACETATE, N-
LD-50: 5 g/kg (SKN-RBT), BUTYL ACETATE, N-
LD-50: 2.737 g/kg (ORL-RAT), BUTANONE
LC-50: 23.5 mg/l/8H (IHL-RAT), BUTANONE
LD-50: 6.48 g/kg (SKN-RBT), BUTANONE
LD-50: 4.3 g/kg (ORL-RAT), XYLENE
LC-50: 5000 ppm/4H (IHL-RAT), XYLENE
LD-50: 2.2 g/kg (ORL-RAT), BUTOXYPROPAN-2-OL, 3-

## 12. Ecotoxicological information

| | |
|---|---|
| **Biological oxygen demand (5)** | : 1.35 g/g BUTYL ACETATE, N-<br>0.5 g/g XYLENE |
| **Chemical oxygen demand** | : 2.49 g/g METHYLPROPAN-2-OL, 2-<br>2.32 g/g BUTYL ACETATE, N-<br>0.45 g/g XYLENE |
| **Biological(5)/chemical oxygen demand ratio** | : 0.58 BUTYL ACETATE, N- |
| **Biochemical factor** | : 1.09 METHYLPROPAN-2-OL, 2-<br>≥4 - ≤14 BUTYL ACETATE, N- |
| **Log Po/w** | : 0.4 METHYLPROPAN-2-OL, 2-<br>1.81 BUTYL ACETATE, N-<br>≥0.3 - ≤2 BUTANONE<br>≥2.8 - ≤3.2 XYLENE |
| **Ecotoxicity** | : LC-50: >180 mg/l/96H (Fish), METHYLPROPAN-2-OL, 2-<br>EC-50: 5504 mg/l/48H (Daphnia), METHYLPROPAN-2-OL, 2-<br>LC-50: 18 mg/l/96H (Fish), BUTYL ACETATE, N-<br>EC-50: 32 mg/l/48H (Daphnia), BUTYL ACETATE, N-<br>LC-50: 3220 mg/l/96H (Fish), BUTANONE<br>EC-50: >520 mg/l/48H (Daphnia), BUTANONE<br>LC-50: 3.77 mg/l/96H (Fish), XYLENE<br>EC-50: 0.6 mg/l/48H (Daphnia), XYLENE<br>IC-50: 10 mg/l/72H (Algae), XYLENE |
| **Remarks on ecotoxicity** | : none |

## 13. Disposal considerations

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation. Consider also return delivery to supplier. Uncleaned empty packagings may contain inflammable and/or explosive mixtures.

## 14. Transport information

| | | |
|---|---|---|
| **ADR/RID** | **UN-number** | : 1263 PAINT |
| | **Class** | : 3 |
| | **Packinggroup** | : III |
| | **Transport emergency card** | : 30g30 |
| **IMO** | **UN-number** | : 1263 PAINT |
| | **Class** | : 3 |
| | **Packinggroup** | : III |
| | **Marine pollutant** | : no |
| **IATA/ICAO** | **UN-number** | : 1263 PAINT |
| | **Class** | : 3 |
| | **Packinggroup** | : III |

## 15. Regulatory information

**Hazard symbol**
F (HIGHLY FLAMMABLE)

**R-phrases**
11 Highly flammable.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

**S-phrases**
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
37 Wear suitable gloves.

**Hazardous component(s)** : not applicable

**Remarks on EC-labeling** : none

## 16. Other information

**Remarks on MSDS** : none
**Inner company references** : none

**Overview relevant R-sentences from all components in section 2 :**
10 Flammable.
11 Highly flammable.
20 Harmful by inhalation.
20/21 Harmful by inhalation and in contact with skin.
36 Irritating to eyes.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

**Date last update** : 2000-02-01

* Point to alterations with regard to the previous version.
The information provided in this Material Safety Data Sheet is correct to the best of the knowledge, information and belief of EQUES COATINGS B.V. at the date of its printing.