

DEK STANDARD ENGINEERING INSTRUCTION

Title

Page 1 of 6

PAINT: " Pigeon Blue"

DSF 2.4.9

If TRIMITE paint is used:

TWO PACK POLYURETHANE FINE TEXTURE

Paint Type and Specification; please refer to pages 2 to 9.

Use ESD undercoat see DSF 2.1.10 prior to this coat.

PRODUCT REF

R47493/AE257

If EQUES paint is used:

TWO PACK ACRYLIC PAINT

Paint Type and Specification; please refer to pages 10 to 14.

Use ESD undercoat see DSF 2.1.10 prior to this coat.

Issue	01	02	03	04	05	06	07	08
DCR	7135	31336	31671					

R CLIMO

PLASTILAC TWO PACK POLYURETHANE TEXTURE TOPCOAT RANGES

- FEATURES:** These high quality Two Pack Polyurethane Coatings are supplied in three grades:
- AE257 Fine Texture
 - AE260 Medium Texture
 - AE261 Coarse Texture
- Surface defects of varying size can be concealed, depending on the product selected. This range of materials provide functionally attractive and aesthetically pleasing finishes for use on a wide range of business machines, office equipment and other electronic enclosures. The rapid drying time makes them suitable for use on most plastic and metal substrates. The fully cured coatings are highly durable finishes which have excellent chemical resistant and colour retention properties.
- AVAILABILITY:** Full details of the container sizes, prices and standard colour ranges may be obtained from our Sales Offices.
- FLASH POINT:** Flash point in the range of 21°C - 32°C. Tested to BS 3900 Part A 8.
- STORAGE:** The recommended temperature range for storage is between 10°C - 15°C. It is not considered advisable to store this material outside this temperature range or to exceed a storage period of six months prior to use.
- Note:** Once opened, when not in use the can of Curing Agent must be kept sealed. (See below for details on the pot life of material when the two components are mixed together.)
- MIXING RATIO:** Plastilac Two Pack Polyurethane Texture Topcoats must be mixed with Curing Agent J2451 in the ratio of 5 parts of Topcoat to 1 part Curing Agent, by volume.
- MIXTURE (POT) LIFE:** The mixed material will remain usable for a period of up to 8 hours under normal working conditions (20°C).
- COVERAGE:** Calculated on a dry film thickness of 40 - 50 microns.
- Conventional Spraying:** 7 - 8 square metres per litre of mixed material
(75 - 85 square feet per litre of mixed material).
- The coverage figures shown are approximate and will vary with the type of equipment used and the shape of the component.
- PREPARATION:**
- Plastic:** The substrate must be thoroughly clean and free from mould release agents and static charges. Owing to the sensitivity of many plastics to certain solvents, Antistatic Cleaner J131 should be used.
- Note:** It may be necessary to use a suitable electronic or radioactive source static eliminator immediately prior to painting.
- Metal:** The substrate must be thoroughly clean and free from contaminants, corrosion and grease. Conventional degreasing methods may be employed, but for maximum efficiency, degreasing with Trimite Vapour Degreasing Solvent M6052 (Genklene LV) is recommended.
- PRIMING:**
- Plastic:** The use of a suitable primer will depend on the substrate. For further information our Product Advisory Department should be consulted
- Metal:** The recommended primer, where necessary, is SAP3 Two Pack Self Etching Primer or BP18 Two Pack Polyurethane Primer.
- FINISHING:** **Application:** Plastilac Two Pack Polyurethane Texture Topcoats may be applied by the following method:

Conventional Spraying

(continued overleaf)

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The Paint Makers — for Industry

Sheet No. R/1 - 4/1
(continued)

Conventional Spraying: To the blend of mixed material (see **MIXING RATIO**) Thinner PT1002 should be added up to 25%, by volume, to obtain a viscosity of 20 - 30 seconds BS B4 viscosity cup at application temperature.

AIR DRYING:

At an ambient temperature of 20°C, the drying time is approximately as follows:

Surface Dry:	10 - 15 minutes
Hard Dry:	2 - 3 hours
Full Properties:	7 days

FORCE DRYING:

Plastic: To accelerate the drying time, elevated temperatures may be used.

This procedure must be carried out with care to avoid component deformation. The type of plastic, condition of moulding and post-mould time will influence the maximum temperature.

Metal: When it is required to accelerate the drying process, temperatures up to 60°C for 20 - 30 minutes are normally recommended.

CLEANING:

High Flash Gun Cleaning Solvent J113 is suitable for the cleaning of all equipment after use.

SAFETY:

Before use refer to our Individual Safety Information Sheets.

Information provided in this leaflet is given in good faith but without warranty on the understanding that users satisfy themselves about the product's suitability for their own purpose. The services of the Trimite Product Advisory Department are available to assist in cases of doubt.

Any sale by this Company is strictly subject to our Conditions of Sale.

99182/97265/92321

TRIMITE LTD.,

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The Paint Makers — for Industry

Safety Information Sheet

AE257

TWO PACK POLYURETHANE FINISH FINE TEXTURE

1. Identification of Product and Company

Intended use: - A two pack paint for a variety of substrates - base component. Application of mixed product by a variety of spraying techniques.

Supplier: Trimite Limited, Arundel Road, Uxbridge, Middlesex UB8 2SD

Emergency Telephone: 01895 251234

2. Composition/Information on Ingredients

Synthetic resins and organic/inorganic pigments in organic solvents. Certain colours may contain lead based pigments, as indicated on the label.

For more detailed information on hazardous ingredients present, see Section 8.

3. Hazards Identification

Toxic, Flammable The classification "Toxic" of this product results from the possible lead content and hence will vary according to the colour. Consult the product label for relevant hazards.

Harmful by inhalation, in contact with skin and if swallowed - May cause harm to the unborn child. - Danger of cumulative effects - Limited evidence of a carcinogenic effect.

4. First Aid Measures

	Equipment	Symptom	First Aid
Inhalation	Air-fed masks/visors must be worn when spraying the mixed product.	Nausea, dizziness, drowsiness. Irritating to eyes and respiratory system.	Remove to fresh air, keep warm and at rest. If breathing is irregular or stopped give artificial respiration. If unconscious place in recovery position. Seek medical advice.
Eye Contact	Goggles or face visor - Chemical splash or BS 2092 according to precise work.	Irritation, swelling.	Irrigate copiously with clean, fresh water for at least ten minutes, holding the eyelids apart. If irritation persists, seek medical advice.
Skin Contact	Regularly laundered and effectively impervious overall, PVC or Nitrile rubber gloves.	Prolonged contact with the skin may have a de-fatting effect which may lead to skin irritation and in some cases, dermatitis.	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.
Ingestion	Not applicable.	Nausea.	If accidentally swallowed, drink milk or water. DO NOT INDUCE VOMITING. Keep at rest and obtain medical attention.

5. Fire Fighting Measures

Extinguishing media: Carbon dioxide, Dry Powder, Fine water spray, Alcohol Resistant Foam.

Not to be used: Water Jet.

Fire will produce dense black smoke containing harmful products of combustion. Cool containers exposed to fire with water spray. For large fires, self contained breathing apparatus should be worn. Carbon monoxide and carbon dioxide will be the main gases formed.

6. Accidental Release Measures

Contain and collect spillage with non-combustible absorbent materials, e.g. sand or earth. Do not allow to enter drains or water courses. Exclude sources of ignition. Ventilate area. For large spillages, respiratory protection may be necessary.

7. Handling and Storage

Avoid the inhalation of vapour. Whilst spraying the mixed product, air-fed masks must be worn due to respiratory sensitising properties of Hardener/Curing Agent. Refer to Section 8 for further advice. Avoid contact with skin and eyes. Wear appropriate clothing and eye protection to BS 2092. Barrier creams may help to protect exposed areas of skin but are no substitute for full physical protection. Prevent the creation of flammable concentrations of vapour in air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. The accumulation of dry overspray or contaminated rags etc and the overloading of spray booth filters may result in spontaneous combustion. Regular cleaning of spraying areas will minimise the risk.

Conformance with the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (S.I. 1972 No. 917) is required.

8. Exposure Controls/Personal Protection

Air-fed masks must be worn when spraying the mixed product. Local exhaust ventilation should be used to ensure unprotected persons nearby are not affected by particles or spray mist. Good general ventilation is essential.

Substance Name	% Conc Range	Symbol	OEL 8hr mg/m3	OEL 15min mg/m3	Risk Phrases	Notes
Xylene, mixture of isomers	>25% & = <100%	Xn,Xi	220.00	441.00	20/21-38	Sk OES
Lead chromate (OES as CrVI cpds)	>0% & = <25%	T	0.15		61-62-40-33	MEL
Lead (as metal)	>0% & = <15%		0.15			MEL
n-Butyl acetate	>10% & = <25%		724.00	966.00	66-67	OES
1-Methoxypropyl-2-acetate	>1% & = <10%	Xi	274.00	822.00	36	OES

Notes: OES - Occupational Exposure Standard. MEL - Maximum Exposure Limit (on NO account should these figures be exceeded). SUP - categorised from suppliers' literature.
Notations = SK - Risk of absorption through skin SEN - Respiratory Sensitiser Bmgv - Biological Monitoring may be appropriate (see Biological Monitoring Guidance Value in EH40 Table 3)
The quantity of lead compounds present in the product depends on the colour concerned. Refer to the product label and to Section 11 for appraisal of the hazards of lead in paints. For guidance on Personal Protective measures, see Section 4.

9. Physical and Chemical Properties

Physical State:	Viscous liquid	V.G.C. Content:	.561 Kgs/lt
Flash point:	≥ 21°C & < 32°C Method BS 3900: Part A8	Vapour Density:	Heavier than Air
Viscosity:	110-120 secs Method BS Cup B4	Lower Explosion Limit:	.7 % Vol.
Specific Gravity:	0.95-1.21 gms/cc Method Calculation (dependent on colour)	Solubility in water:	Immiscible

10. Stability and Reactivity

Stable under the recommended storage and handling conditions (see Section 7). When exposed to high temperatures, hazardous decomposition products may be produced. Keep away from oxidising agents and strongly alkaline or acid materials to prevent the possibility of an exothermic reaction.

11. Toxicological Information

There is no formal data available on the product itself. Over exposures are irritating to the eyes and respiratory system. Excessive concentrations may produce effects on the central nervous system including drowsiness. Loss of consciousness may result. Prolonged contact with skin may cause irritation and possibly dermatitis. Splashes in the eyes may cause discomfort and possible damage. Long term exposure to vapour may cause adverse health effects. Whilst increased incidences of lung cancer have been noted in chromate pigment manufacturing industry, epidemiological studies show no cancer excesses where lead chromates alone were manufactured. Data from animal studies on the carcinogenicity of chromates does not extend to lead chromates. There is, however, no evidence of a risk of lung cancer from using lead chromate containing paints. Recent studies have shown a link between elevated maternal blood lead levels and developmental effects in the offspring. The EC has therefore classified all lead compounds as "Toxic to Reproduction".

12. Ecological Information

There is no formal data available on the product itself, however it should not be allowed to enter drains or water courses. Should it do so, the local water authority should be contacted immediately. The Environmental Protection Act 1990 may apply to the use of this product.

13. Disposal Considerations

Waste materials should be regarded as controlled wastes and should be disposed of in accordance with the relevant regulations. Do not allow waste to enter drains. The Control of Pollution Act 1974, the Special Waste Regulations 1996 (S.I. 1996 No. 972), the Environmental Protection Act 1990 and/or any local regulations will apply.

14. Transport Information

Road/Rail	SI Number.....1263 Designation.....Paint product	Packing Group...III	Class.....3.3
Sea	Packing Grp. <= 30lts....III Marine Pollutant.....No Shipping Name.....Paint product	Packing Grp. > 30lts....III UN Number.....1263	Class.....III
Air	Packing Grp. <= 30lts....III UN Number.....1263 Shipping Name.....Paint	Packing Grp. > 30lts....III	Class.....3.3

15. Regulatory Information

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging for Supply) (Amendment) Regulations 1997 (S.I. 1997 No. 1460) as follows:

Classification	T - Toxic Flammable
Contains	Xylene, mixture of isomers Lead chromate
Risk Phrases	20/21/22 Harmful by inhalation, in contact with skin and if swallowed 61 May cause harm to the unborn child. 33 Danger of cumulative effects 40 Limited evidence of a carcinogenic effect.
Safety Phrases	7 Keep container tightly closed 20/21 When using do not eat drink or smoke. 24/25 Avoid contact with skin and eyes. 46 If swallowed seek medical advice immediately and show this container or label.
'P' Phrases	Do not breathe vapour or spray. In case of insufficient ventilation, wear suitable respiratory equipment.

Contains Lead. Should not be used on surfaces that are liable to be chewed or sucked by children. The information contained in this sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation. The provisions of the Health & Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product.

16. Other Information

Text of any Risk Phrases listed in Section 8

R20/21
R33
R36
R38
R40
R41
R51
R52
R56
R57
Harmful by inhalation and in contact with skin
Danger of cumulative effects
Irritating to eyes
Irritating to skin
Limited evidence of a carcinogenic effect.
May cause harm to the unborn child.
Possible risk of impaired fertility.
Repeated exposure may cause skin dryness or cracking
Vapours may cause drowsiness and dizziness

Date of Origin 28/07/95
Date of last revision 28/07/95

The risk phrase texts listed above are included to ensure compliance with the CHIP Regulations. They apply only to the pure chemical compounds listed in Section 8 and NOT to the product as supplied. For guidance on the risk phrases applicable to the product, see Section 15 and product label. The V.O.C. contents quoted are for the full gloss black version and may be considered the "worst case". Other colours or gloss levels may have appreciably lower V.O.C. contents. Some of the risk, safety and "P" phrases listed in Section 15 are applicable to certain colours only. Consult the product label for details. Refer to Occupational Exposure Limits Guidance Note EH40/- and spraying of highly flammable liquids EH9 (both available from H.M.S.O.) Refer to Safety Information Sheet for Curing Agent/Hardener prior to use.

This Safety Data Sheet has been prepared in line with the Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 1997 (S.I. 1997 No. 1460) and EC Directive 96/54/EC. The sheet is designed to enable the user to use the product safely, being based on the latest knowledge available to Trimite Limited and no relevant information has been omitted. The user should not assume on the basis of the information provided that the product is suitable for any abnormal use. Before such applications are undertaken, further advice should be sought.

Further information and relevant advice can be found in:-
The Control of Substances Hazardous to Health (Amendment) Regulations 1997 (S.I. 1997 No. 11)
The Manual Handling Operations Regulations 1992 (S.I. 1992 No. 2793)
Storage of Flammable Liquids in Containers. HS(G)51
Storage of Packaged Dangerous Substances. HS(G)71
The Environmental Protection (Duty of Care) Regulations 1992 (S.I. 1988 No. 2839)
Occupational Exposure Limits Guidance Note EH 40/-

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The Paint Makers — for Industry

Safety Information Sheet

J188

ELECTROSTATIC DISCHARGE COATING BLACK

1. Identification of Product and Company

Intended use: - A paint for reducing the electrostatic charge on electrical equipment.

Supplier: Trimite Limited, Arundel Road, Uxbridge, Middlesex UB8 2SD
Emergency Telephone: 01895 251234

2. Composition/Information on Ingredients

Synthetic resins and organic/inorganic pigments in organic solvents.

For more detailed information on hazardous ingredients present, see Section 8.

3. Hazards Identification

Harmful, Highly flammable

Harmful by inhalation, in contact with skin and if swallowed - Irritating to eyes

4. First Aid Measures

	Equipment	Symptom	First Aid
Inhalation	Chemical fume quality masks normally advisable. Air-fed masks in cases of uncertain ventilation.	Nausea, dizziness, drowsiness. Irritating to eyes and respiratory system.	Remove to fresh air, keep warm and at rest. If breathing is irregular or stopped give artificial respiration. If unconscious place in recovery position. Seek medical advice.
Eye Contact	Goggles or face visor - Chemical splash or BS 2092 according to precise work.	Irritation, swelling.	Irrigate copiously with clean, fresh water for at least ten minutes, holding the eyelids apart. If irritation persists, seek medical advice.
Skin Contact	Regularly laundered and effectively impervious overall, PVC or Nitrile rubber gloves.	Prolonged contact with the skin may have a de-fatting effect which may lead to skin irritation and in some cases, dermatitis.	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.
Ingestion	Not applicable.	Nausea.	If accidentally swallowed, drink milk or water. DO NOT INDUCE VOMITING. Keep at rest and obtain medical attention.

5. Fire Fighting Measures

Extinguishing media: Carbon dioxide, Dry Powder, Fine water spray, Alcohol Resistant Foam.

Not to be used: Water Jet.

Fire will produce dense black smoke containing harmful products of combustion. Cool containers exposed to fire with water spray. For large fires, self contained breathing apparatus should be worn. Carbon monoxide and carbon dioxide will be the main gases formed.

6. Accidental Release Measures

Contain and collect spillage with non-combustible absorbent materials, e.g. sand or earth. Do not allow to enter drains or water courses. Exclude sources of ignition. Ventilate area. For large spillages, respiratory protection may be necessary.

7. Handling and Storage

Avoid the inhalation of vapour, particles and spray mist. Refer to Section 8 for advice on exposure control. Avoid contact with skin and eyes. Wear appropriate clothing and eye protection to BS 2092. Barrier creams may help to protect exposed areas of skin but are no substitute for full physical protection. Prevent the creation of flammable concentrations of vapour in air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. The accumulation of dry overspray or contaminated rags etc and the overloading of spray booth filters may result in spontaneous combustion. Regular cleaning of spraying areas will minimise the risk. When flattening, avoid the inhalation of airborne particles.

Conformance with the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (S.I. 1972 No. 917) and the Petroleum (Consolidation) Act 1928 is required.

8. Exposure Controls/Personal Protection

Adequate ventilation should be provided. Where reasonable practicable, this should be achieved by the use of local exhaust ventilation and good general ventilation. If this is not sufficient to maintain concentrations of particulates or solvent vapour below the OEL, suitable respiratory protection must be worn (see Section 4).

Substance Name	% Conc Range	Symbol	OEL 8hr mg/m3	OEL 15min mg/m3	Risk Phrases	Notes
Butanone (MEK)	>25% & = <100%	Xi	600.00	900.00	36-66-67	Sk OES
Xylene, mixture of isomers	>10% & = <25%	Xn, Xi	220.00	441.00	20/21-38	Sk OES
Butan-1-ol	>10% & = <25%	Xn, Xi	154.00	154.00	22-37/38-41-67	Sk OES
n-Butyl acetate	>1% & = <10%		724.00	966.00	66-67	OES

Notes: OES - Occupational Exposure Standard. MEL - Maximum Exposure Limit (on NO account should these figures be exceeded). SUP - categorised from suppliers' literature.
Notations = SK - Risk of absorption through skin SEN - Respiratory Sensitiser Bmgv - Biological Monitoring may be appropriate (see Biological Monitoring Guidance Value in EH40 Table 3)
For guidance on Personal Protective measures, see Section 4.

9. Physical and Chemical Properties

Physical State:	Viscous liquid	V.O.C. Content:	.649 Kgs/lt
Flash point:	≥ 0°C & < 21°C Method BS	Vapour Density:	Heavier than Air
Viscosity:	3900: Part A8	Lower Explosion Limit:	.7 % Vol.
Specific Gravity:	0.94 gms/cc Method Calculation	Solubility in water:	Immiscible

10. Stability and Reactivity

Stable under the recommended storage and handling conditions (see Section 7). When exposed to high temperatures, hazardous decomposition products may be produced. Keep away from oxidising agents and strongly alkaline or acid materials to prevent the possibility of an exothermic reaction.

11. Toxicological Information

There is no formal data available on the product itself. Over exposures are irritating to the eyes and respiratory system. Excessive concentrations may produce effects on the central nervous system including drowsiness. Loss of consciousness may result. Prolonged contact with skin may cause irritation and possibly dermatitis. Splashes in the eyes may cause discomfort and possible damage. Long term exposure to vapour may cause adverse health effects. Nickel is a known skin sensitiser and a possible carcinogen. Although the paint medium may reduce any sensitisation risk, contact of wet and dry paint with the skin should be avoided.

12. Ecological Information

There is no formal data available on the product itself, however it should not be allowed to enter drains or water courses. Should it do so, the local water authority should be contacted immediately. The Environmental Protection Act 1990 may apply to the use of this product.

13. Disposal Considerations

Waste materials should be regarded as controlled wastes and should be disposed of in accordance with the relevant regulations. Do not allow waste to enter drains. The Control of Pollution Act 1974, the Special Waste Regulations 1996 (S.I. 1996 No. 972), the Environmental Protection Act 1990 and/or any local regulations will apply.

14. Transport Information

Road/Rail	SI Number.....1263 Designation.....Paint	Packing Group...II	Class.....3
Sea	Packing Grp. < = 30lts....II Marine Pollutant.....No Shipping Name.....Paint	Packing Grp. > 30lts....II UN Number.....1263	Class.....3.2
Air	Packing Grp. < = 30lts....II UN Number.....1263 Shipping Name.....Paint	Packing Grp. > 30lts....II	Class.....3.2

15. Regulatory Information

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging for Supply) (Amendment) Regulations 1997 (S.I. 1997 No. 1460) as follows:

Classification	Xn - Harmful F - Highly Flammable
Contains	Butanone (MEK) Xylene, mixture of isomers
Risk Phrases	20/21/22 36 Harmful by inhalation, in contact with skin and if swallowed Irritating to eyes
Safety Phrases	7 20/21 24/25 46 Keep container tightly closed When using do not eat drink or smoke. Avoid contact with skin and eyes. If swallowed seek medical advice immediately and show this container or label.
'P' Phrases	Do not breathe vapour or spray. In case of insufficient ventilation, wear suitable respiratory equipment.

The information contained in this sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.
The provisions of the Health & Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product.

16. Other Information

Text of any Risk Phrases listed in Section 8

R20/21 Harmful by inhalation and in contact with skin
R22 Harmful if swallowed
R36 Irritating to eyes
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin
R41 Risk of serious damage to eyes.
R67 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

Date of Origin 16/09/98
Date of last revision 16/09/98

The risk phrase texts listed above are included to ensure compliance with the CHIP Regulations. They apply only to the pure chemical compounds listed in Section 8 and NOT to the product as supplied. For guidance on the risk phrases applicable to the product, see Section 15 and product label. Refer to Occupational Exposure Limits Guidance Note EH40 /- and Spraying or highly flammable liquids EH9 (both available from H.M.S.O.)

This Safety Data Sheet has been prepared in line with the Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 1997 (S.I. 1997 No. 1460) and EC Directive 96/54/EC.

The sheet is designed to enable the user to use the product safely, being based on the latest knowledge available to Trimite Limited and no relevant information has been omitted.

The user should not assume on the basis of the information provided that the product is suitable for any abnormal use. Before such applications are undertaken, further advice should be sought.

Further information and relevant advice can be found in:-
The Control of Substances Hazardous to Health (Amendment) Regulations 1997 (S.I. 1997 No. 11)
The Manual Handling Operations Regulations 1992 (S.I. 1992 No. 2793)
Storage of Flammable Liquids in Containers. HS(G)51
Storage of Packaged Dangerous Substances. HS(G)71
The Environmental Protection (Duty of Care) Regulations 1992 (S.I. 1988 No. 2839)
Occupational Exposure Limits Guidance Note EH 40/-

APPLICATION EXAMPLE 2PACK FOR METAL #676 (DSF 2.4.9)

CODE NUMBER: 1322 036 31676

Mixing ratio : 100 kg pigment suspension 1322 036 31676
18 kg hardener 1330 500 55202

Mix the components thoroughly before use
Mixture can be used for up to 8 hrs after mixing

Thinner : 1322 510 11201

Dilution ratio : 20 - 25 % w/w

Spraying viscosity : 20 - 22 s DIN4

Spraygun : airgun

Nozzle aperture : 1.5 mm ϕ

Spraying pressure : 3 bar

Spraying passages : 2-3

Dray layer thickness : 30 - 40 μ m

Drying : 15 min. at ambient temperature + 30 min. at 80 °C

Cleaning : Clean spraygun immediately after spraying using thinner
1322 510 11201

Colour: RAL 5014 Structure

Gloss: 5 - 15, according to ISO 2813 (60°)

1322 036 31676 (2005 07)
SH 112 - 1 (1)

MATERIAL SAFETY DATA SHEET

According EC 91/155

1. Identification of the substance/preparation

MSDS : 22677
 Product code 12nc : 1322 036 31676
 Supplier : EQUES COATINGS C.V.
 Tradename : 2PACK FOR METAL #676 RAL 5014
 General description : ACRYLATE RESIN PAINT
 Use : Various
 Publicationdate : 2005-07-13
 Emergency phonenumber +31 (0)497-598315

2. Composition/information on ingredients

Component	CAS-number	EC-number	Percentage	EC-label
ETHYL ACETATE	141-78-6	205-500-4	<6.8 %	F,Xi;R: 11-36-66-67
BUTANONE	78-93-3	201-159-0	<6.0 %	F,Xi;R: 11-36-66-67
XYLENE	1330-20-7	215-535-7	≥20.0 %	Xn;R: 63-10-20/21-38 Repr.Cat. 3
METHOXY-2-PROPANOLACETATE, 1-	108-65-6	203-603-9	<7.2 %	Xi;R: 10-36
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	64742-95-6	265-199-0	<2.5 %	Xn,N;R: 38-51/53-65-67

3. Hazard identification



R-phrases

- Possible risk of harm to the unborn child.
- Flammable.
- Harmful by inhalation and in contact with skin.
- Irritating to skin.

4. First-aid measures

Skin : Remove contaminated clothes as soon as possible. Remove residue substance as soon as possible (f.i. rinse with much water). In case of a serious exposure call for a doctor.

Ingestion : If victim is conscious let him drink 1 or 2 glasses of water. In case of general disorders bring victim into the hospital, otherwise call for a doctor.

Inhalation : Bring victim into the fresh air as soon as possible and let rest. In case of severe exposure call for a doctor. In case of breathing problems, loose squeezing clothes and if victim is conscious bring victim in high sitting position. In case of stagnation of breathing give IMMEDIATELY oxygen and transport to hospital as soon as possible.

Eyes : Rinse for a long time with a lot of water. In case of eye-sight disturbances bring victim immediately into the hospital, in other cases call for 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 : Do not store in direct sunlight or close to other heat sources.
 Store product in a cool, dry and well ventilated area.
 Do not store product close to ignition sources.

8. Exposure controls/personal protection

Exposure limits :

applicable to: Netherlands (20 °C; 1013 mbar)

TLV:	550 mg/m ³		ETHYL ACETATE
STEL:	1100 mg/m ³		ETHYL ACETATE
TLV:	590 mg/m ³	S	BUTANONE
STEL:	900 mg/m ³	S	BUTANONE
TLV:	210 mg/m ³		XYLENE(all isomers)
STEL:	442 mg/m ³		XYLENE(all isomers)
TLV:	550 mg/m ³		METHOXY-2-PROPANOLACETATE, 1-
TLV:	5 mg/m ³		SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)(as oil aerosol)

applicable to: Belgium (20 °C; 1013 mbar)

TLV:	1461 mg/m ³		ETHYL ACETATE
TLV:	599 mg/m ³		BUTANONE
STEL:	898 mg/m ³		BUTANONE
TLV:	440 mg/m ³		XYLENE(all isomers)
STEL:	660 mg/m ³		XYLENE(all isomers)
TLV:	275 mg/m ³	S	METHOXY-2-PROPANOLACETATE, 1-
STEL:	550 mg/m ³	S	METHOXY-2-PROPANOLACETATE, 1-
TLV:	5 mg/m ³		SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)(as oil aerosol)
STEL:	10 mg/m ³		SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)(as oil aerosol)

applicable to: Germany (20 °C; 1013 mbar)

TLV:	1500 mg/m ³		ETHYL ACETATE
TLV:	600 mg/m ³	S	BUTANONE
TLV:	440 mg/m ³	S	XYLENE
TLV:	270 mg/m ³		METHOXY-2-PROPANOLACETATE, 1-
TLV:	500 mg/m ³		SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)(carbonhydrogen mix, group 2)

applicable to: United States (25 °C; 1013 mbar)

TLV:	1440 mg/m ³		ETHYL ACETATE
TLV:	590 mg/m ³		BUTANONE
STEL:	880 mg/m ³		BUTANONE
TLV:	434 mg/m ³		XYLENE(xylene, o-, m-, p-isomers)
STEL:	651 mg/m ³		XYLENE(xylene, o-, m-, p-isomers)
TLV:	5 mg/m ³		SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)(as oil aerosol)
STEL:	10 mg/m ³		SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)(as oil aerosol)

C=Ceiling; S=Skin

Remarks exposure limits :

Avoid exposure - obtain special instructions before use.

Odour threshold (20°C; 1013 mbar) :

≥23.79 -≤164.7 mg/m ³	ETHYL ACETATE
≥6 -≤255 mg/m ³	BUTANONE
0.22 mg/m ³	XYLENE

Advised personal protection :

skin	: butyl rubber gloves
eyes	: acid 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	: ≥77 °C (1013 mbar)
Melting point/range	: not traceable
Flash point/range	: ≥21 °C -≤55 °C
Explosive limits	: LEL:≥1.0 vol.% -UEL:≤11.5 vol.%
Dust explosions possible in air	: not applicable
Relative density	: ≥1.160 -≤1.240 (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	: >315 °C
Decomposition temperature	: not traceable

10. Stability and reactivity

Conditions to avoid	: none
Reactions with water	: no
Hazardous reactions with	: oxidizing substances, strong acids
Hazardous decomposition products at heating	: none

11. Toxicological information

Symptoms

Skin	* local	: The substance is irritating: redness, pain.
		: Degreasing: in case of sustained contact a rough, dry skin, eczema.
	* general	: The substance may be absorbed via the skin.
Ingestion	* local	: The substance is prickling: sore throat.
	* general	: The substance may be absorbed after ingestion.
Inhalation	* local	: The substance is with atomising prickling: sore throat.
	* general	: The substance may be absorbed after inhalation.
		: The vapour is intoxicating: sleepiness, dizziness.
Eyes	* local	: The substance is prickling: redness.
* Remarks symptoms		: The substance has an effect on: the liver, the kidneys, the nervous system, the unborn child.

Toxicity :

LD-50: 5.62 g/kg (ORL-RAT), ETHYL ACETATE	
LC-50: 1600 ppm/8H (IHL-RAT), ETHYL ACETATE	
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: 1.87 g/kg (ORL-RAT), METHOXY-2-PROPANOLACETATE, 1-	
LD-50: >5 g/kg (SKN-RBT), METHOXY-2-PROPANOLACETATE, 1-	
LD-50: >2 g/kg (ORL-RAT), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE
LD-50: >2 g/kg (SKN-RBT), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE

Ames test : not traceable

12. Ecotoxicological information

Biological oxygen demand (5)	: 0.92 g/g ETHYL ACETATE 0.5 g/g XYLENE 0.0011 g/g METHOXY-2-PROPANOLACETATE, 1-	
Chemical oxygen demand	: 1.54 g/g ETHYL ACETATE 0.45 g/g XYLENE 0.0017 g/g METHOXY-2-PROPANOLACETATE, 1-	
Biological(5)/chemical oxygen demand ratio	: 1.11 XYLENE	
Degradability	: 0.647 METHOXY-2-PROPANOLACETATE, 1- degradable SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE
Biochemical factor	: not traceable	
Log Po/w	: 0.7 ETHYL ACETATE ≥0.3 -≤2 BUTANONE ≥2.8 -≤3.2 XYLENE 0.43 METHOXY-2-PROPANOLACETATE, 1- >3 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE
Henry Constant	: not traceable	

Ecotoxicity :

LC-50: 212 mg/l/96H (Fish), ETHYL ACETATE	
EC-50: 164 mg/l/48H (Daphnia), ETHYL ACETATE	
LC-50: 3220 mg/l/96H (Fish), BUTANONE	
EC-50: >520 mg/l/48H (Daphnia), BUTANONE	
LC-50: 3.77 mg/l/96H (Fish), XYLENE	
EC-50: 0.6 mg/l/48H (Daphnia), XYLENE	
IC-50: 10 mg/l/72H (Algae), XYLENE	
LC-50: ≥100 -≤180 mg/l/96H (Fish), METHOXY-2-PROPANOLACETATE, 1-	
EC-50: 408 mg/l/48H (Daphnia), METHOXY-2-PROPANOLACETATE, 1-	
LC-50: >1 -≤10 mg/l/96H (Fish), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE
EC-50: >1 -≤100 mg/l/48H (Daphnia), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE
IC-50: >1 -≤100 mg/l/72H (Algae), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (C6H6 <0.1%)	Source : CONCAWE

Remarks on ecotoxicity : none

13. Disposal considerations

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	: 30GF1-III
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	
Xn	(HARMFUL)
R-phrases	
63	Possible risk of harm to the unborn child.
10	Flammable.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.
S-phrases	
36/37	Wear suitable protective clothing and gloves.
Hazardous component(s)	: XYLENE
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.
20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
38	Irritating to skin.
51/53	Toxic to the aquatic organisms, may cause long-term adverse effects in the aquatic environment.
63	Possible risk of harm to the unborn child.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Date last update : 2005-08-11

* 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 C.V. at the date of its printing.