

DEK STANDARD ENGINEERING INSTRUCTION

Title

Page 1 of 6

PAINT: "Grey"

DSF 2.4.8

If TRIMITE paint is used:

TYPE

Paint Type and Specification as per DSF2.1.5

MANUFACTURER

Trimite

REFERENCE

Trimite Ref No. R38988

(To match a Sherwin Williams specification (F63TXN0224))

If EQUES paint is used:

TWO PACK ACRYLIC PAINT

Paint Type and Specification; please refer to pages 2 to 6.

Use ESD undercoat see DSF 2.1.10 prior to this coat.

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

APPLICATION EXAMPLE 2PACK FOR METAL #678

CODE NUMBER: 1322 031 31678 (DEK: DSF 2.4.8)

Components	:	100	kg pigment suspension	1322 031 31678
		20	kg hardener	1330 500 55202

The components should be mixed thoroughly before spraying.

The potlife of the mixed paint is approx. 8 hours.

Thinner	:	1322 510 11201. (20 - 25%)
Spraying viscosity	:	20-22 s DIN 4 cup (4 mm)
Spraygun	:	airgun
Nozzle aperture	:	1.5 mm
Spraying pressure	:	3 bar
Dry film thickness	:	30 - 40 μ m (2 crosscoatings)
Drying	:	15 minutes "flash off" + 30 minutes at 80°C
Remarks	:	If a second layer has to be applied, this should be done within 24 hours.
		Spraying equipment should be cleaned immediately after use with thinner 1322 510 11201.

Colour: DSF 2.4.8, Light Grey)

Gloss: 20 - 30, according ISO 2813 (60°).

1322 031 31678
SH 112 - 1 (1)

MATERIAL SAFETY DATA SHEET

According EC 91/155

1. Identification of the substance/preparation

MSDS : 10648
 Product code 12nc : 1322 031 31678
 Supplier : EQUES COATINGS C.V.
 Tradename : 2PACK FOR METAL #678 DSF 2.8.2 2.4.8
 General description : ACRYLATE RESIN PAINT
 Use : Various
 Publicationdate : 2000-02-02
 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	≤6.7 %	F,Xi;R: 11-36-66-67
BUTANONE	78-93-3	201-159-0	≤6.1 %	F,Xi;R: 11-36-66-67
XYLENE	1330-20-7	215-535-7	≥20.0 %	Xn;R: 63-10-20/21-38
METHOXY-2-PROPANOLACETATE, 1-	108-65-6	203-603-9	≤7.2 %	Repr.Cat. 3 Xi;R: 10-36

3. Hazard identification



R-phrases

- Possible risk of harm to the unborn child.
- Highly 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 : Keep container in a well-ventilated place.
 Keep away from sources of ignition - No smoking.

Storage code (on behalf of PGS 15) : F1

8. Exposure controls/personal protection

Exposure limits :

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

TLV:	550 mg/m3		ETHYL ACETATE
STEL:	1100 mg/m3		ETHYL ACETATE
* TLV:	590 mg/m3	S	BUTANONE
STEL:	900 mg/m3	S	BUTANONE
* TLV:	210 mg/m3		XYLENE(all isomers)
STEL:	442 mg/m3		XYLENE(all isomers)
TLV:	550 mg/m3		METHOXY-2-PROPANOLACETATE, 1-

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

TLV:	1461 mg/m3		ETHYL ACETATE
TLV:	599 mg/m3		BUTANONE
STEL:	898 mg/m3		BUTANONE
TLV:	440 mg/m3		XYLENE(all isomers)
STEL:	660 mg/m3		XYLENE(all isomers)
TLV:	275 mg/m3	S	METHOXY-2-PROPANOLACETATE, 1-
STEL:	550 mg/m3	S	METHOXY-2-PROPANOLACETATE, 1-

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

TLV:	1500 mg/m3		ETHYL ACETATE
TLV:	600 mg/m3	S	BUTANONE
TLV:	440 mg/m3	S	XYLENE
TLV:	270 mg/m3		METHOXY-2-PROPANOLACETATE, 1-

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

TLV:	1440 mg/m3		ETHYL ACETATE
TLV:	590 mg/m3		BUTANONE
STEL:	880 mg/m3		BUTANONE
TLV:	434 mg/m3		XYLENE(xylene, o-, m-, p-isomers)
STEL:	651 mg/m3		XYLENE(xylene, o-, m-, p-isomers)

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/m3	ETHYL ACETATE
≥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	: ≥77 °C (1013 mbar)
Melting point/range	: not traceable
Flash point/range	: ≤21 °C
Explosive limits	: LEL:≥1 vol.% -UEL:≤12 vol.%
Dust explosions possible in air	: not applicable
Relative density	: ≥1.00000 -≤1.36000 (water=1) (20 °C)
Vapour pressure	: 10.3 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
Electrostatic chagement	: 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.
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		: Degreasing: in case of sustained contact a rough, dry skin, eczema.
	general	: With intensive skin contact risk of skin affection.
		: The substance may be absorbed via the skin.
Ingestion	local	: No absorption worth mentioning under normal working conditions.
		: The substance is prickling: abdominal pain, vomiting.
	general	: No symptoms under normal working conditions.
		: For phenomena, see inhalation general.
Inhalation	local	: No absorption worth mentioning under normal working conditions.
	general	: The vapour is prickling: coughing, shortness of breath.
		: The vapour may be absorbed by inhalation.
Eyes	local	: The vapour is intoxicating: headache, dizziness, nausea.
Remarks symptoms		: The substance is irritating: redness, pain, poor vision.
		: The substance has an effect on: 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-

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 0.647 METHOXY-2-PROPANOLACETATE, 1-
Degradability	: not traceable
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-
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-

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	: 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	
F	(HIGHLY FLAMMABLE)
Xn	(HARMFUL)
R-phrases	
63	Possible risk of harm to the unborn child.
11	Highly 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.
9	Keep container in a well-ventilated place.
16	Keep away from sources of ignition - No smoking.
Hazardous component(s)	
: XYLENE	
Remarks on EC-labeling	
: none	

16. Other information

Remarks on MSDS	: The component(s), as mentioned in section 2, are registered in the Toxic Substances Control Act Inventory (USA).
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.
63	Possible risk of harm to the unborn child.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Date last update : 2005-03-25

* 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.