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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.11.2019 Revision: 13.11.2019

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

- · 1.1 Product identifier For professional use only
- · Trade name: Polyurethane Floor Paint Colours
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against Surface Coating
- · Application of the substance / the mixture Surface Coating
- · Uses advised against Product is not intended, labelled or packaged for consumer use.
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier:

HMG PAINTS LIMITED

RIVERSIDE WORKS, COLLYHURST ROAD,

MANCHESTER, M40 7RU

UNITED KINGDOM

TEL: +44 (0)161 205 7631

EMAIL: sales@hmgpaint.com

- · Further information obtainable from: sales@hmgpaint.com
- · 1.4 Emergency telephone number: +44 (0)161 205 7631 (Business hours)

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour. Acute Tox. 4 H312 Harmful in contact with skin.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS02

02 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics,

<2% aromatics

· Hazard statements

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

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· Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

*P321* Specific treatment (see on this label).

*P331* Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

*P362+P364 Take off contaminated clothing and wash it before reuse.* 

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· *PBT*: Not applicable. · *vPvB*: Not applicable.

## SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
EC number: 919-446-0 Reg.nr.: 01-2119458049-33-xxxx	Hydrocarbons, C9-12, n-alkanes, isoalkanes,cyclics, (2-25%) aromatics  Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1,	10-25%
EC 010 957 5	H304; 🚯 Aquatic Chronic 2, H411; 🐧 STOT SE 3, H336	10-25%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33-xxxx	L	10-23%
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ STOT SE 3, H336	
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	2.5-10%
Reg.nr.: 01-2119475791-29	♦ Flam. Liq. 3, H226	
EC number: 927-344-2	alkanes,isoalkanes,cyclics,aromatics(2-25%)	2.5-10%
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ Acute Tox. 4, H302; STOT SE 3, H336	
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3, H226; Asp. Tox. I, H304; STOT SE 3, H336	2.5-10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light aromatic  Flam. Liq. 3, H226; Asp. Tox. I, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	≤2.5%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-xxxx	Toluene  ♠ Flam. Liq. 2, H225; ♠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ♠ Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412	≤2.5%

<sup>·</sup> Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:

Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/extraction at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risk of fires, all contaminated materials should be [stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.] or

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[laid out flat in a single layer to dry] or [placed in a metal container soaked with water] or [washed out well with warm soapy water before disposal.] Contaminated materials should be removed from the workplace at the end of each working day and stored outside.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed and in a well-ventilated place.

Keep away from heat.

· 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingre	edients with limit values that require monitoring at the workplace:		
-	Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics,		
<2%	aromatics		
OEL	Short-term value: 1200 mg/m³		
108-0	55-6 2-methoxy-1-methylethyl acetate		
WEL	Short-term value: 548 mg/m³, 100 ppm		
	Long-term value: 274 mg/m³, 50 ppm		
	<i>Sk</i>		
Solve	nt naphtha (petroleum), light aromatic		
OEL	Long-term value: 100 mg/m³		
108-8	88-3 Toluene		
WEL	Short-term value: 384 mg/m³, 100 ppm		
	Long-term value: 191 mg/m³, 50 ppm		

#### $\cdot$ **DNELs**

Sk

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics		
		26 mg/day (Con)
Dermal		26 mg/day (Con)
		44 mg/day (Ind)

Inhalative DNEL 71 mg/m³ (Con)
330 mg/m³ (Ind)

## Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	DNEL	125 mg/day (Con)
Dermal	DNEL	125 mg/day (Con)
		208 mg/day (Ind)
Inhalative	DNEL	185 mg/m³ (Con)
		$871 \text{ mg/m}^3 (Ind)$

## 108-65-6 2-methoxy-1-methylethyl acetate

		1.67 mg/day (Con)
Dermal	DNEL	54.8 mg/day (Con)
		153.5 mg/day (Ind)
Inhalative	DNEL	$33 \text{ mg/m}^3 (Con)$
		$275 \text{ mg/m}^3 \text{ (Ind)}$

### Solvent naphtha (petroleum), light aromatic

Oral DNEL 11 mg/day (Con)

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		(Contd. of page 4)
Dermal	DNEL	11 mg/day (Con)
		25 mg/day (Ind)
Inhalative	DNEL	$32 \text{ mg/m}^3 (Con)$
		150 mg/m³ (Ind)
108-88-3 T	Coluene	
Oral	DNEL	8.13 mg/day (Con)
Dermal	DNEL	226 mg/day (Con)
		384 mg/day (Ind)
Inhalative	DNEL	56.5 mg/m³ (Con)
		192 mg/m³ (Ind)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

- Respiratory protection: When spraying the product, use a respiratory protective device.
- · Protection of hands:



Protective gloves

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: Undetermined.

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	(Contd. of page
Initial boiling point and boiling range	2: 135 ℃
Flash point:	31 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	>200 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
Explosion limits:	
Lower:	0.6 Vol %
Upper:	7 Vol %
Vapour pressure:	Not determined.
Density at 20 °C:	0.929 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	NOT MISCIBLE
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic at 20 °C:	250 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	28.4 %
Solids content:	52.5 %
9.2 Other information	No further relevant information available.

## SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

No dangerous decomposition products when stored and handled correctly

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful in contact with skin.

· LD/LC50	values rel	evant for classification:	
Hydrocari	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics		
Oral	LD50	>15,000 mg/kg (Rat)	
Dermal	LD50	>3,400 mg/kg (Rab)	(0)

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		(Contd. of page	6)
Inhalative	LC50/4 h	13.1 mg/l (Rat)	
•	Hydrocarbons, C9 - C11, n-alkanes, isoalkanes, cyclics,		
<2% arom	atics		
Oral	LD50	>5,000 mg/kg (Rat)	٦
Dermal	LD50	>5,000 mg/kg (Rat)	
108-65-62	?-methoxy-	1-methylethyl acetate	
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	5,000 mg/kg (Rat)	
Inhalative	LC50/4 h	>10.8 mg/l (Rat)	
Solvent na	phtha (pet	roleum), light aromatic	٦
Oral	LD50	3,492 mg/kg (rat)	
Dermal	LD50	3,160 mg/kg (Rab)	
Inhalative	LC50/4 h	6,193 mg/l (rat)	
108-88-3 1	Toluene		
Oral	LD50	5,580 mg/kg (Rat)	
Dermal	LD50	5,000 mg/kg (Rab)	
Inhalative	LC50/4 h	20 mg/l (Rat)	

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

· Aspiration hazard

May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

Acute Fish toxicity

Solvent naphtha (petroleum), light arom. (content of benzene less than 0,1 %)

LC50 9.22 mg/l

Species: Oncorhynchus mykiss (rainbow trout)

Exposure duration: 96 h

Acute toxicity for daphnia

Solvent naphtha (petroleum), light arom. (content of benzene less than 0,1 %)

EC50 6.14 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Acute toxicity for algae

Solvent naphtha (petroleum), light arom. (content of benzene less than 0,1 %)

ErC50 2.9 mg/l

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 72 h

Acute bacterial toxicity

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Solvent naphtha (petroleum), light arom. (content of benzene less than 0,1 %) EC50 1 - 10 mg/l

#### Ecotoxicology Assessment

Solvent naphtha (petroleum), light arom. (content of benzene less than 0,1 %)

Chronic aquatic toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Data based on the safety data sheet (SDS) by the supplier.

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1263	
14.2 UN proper shipping name		
ADR	1263 PAINT	
IMDG, IATA	PAINT	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class	3 Flammable liquids	
Class Label	3 Flammable liquids. 3	
Label	<u>*</u>	
	<u>*</u>	
Label 14.4 Packing group	3	
Label 14.4 Packing group ADR, IMDG, IATA	3 III	
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards:	3  III  Not applicable.	

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· Stowage Category	A
· 14.7 Transport in bulk according to Anno	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
- · · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	28.4

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Full text of H-Statements referred to under sections 2 and 3:
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Product safety department: LABORATORY

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3