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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.07.2016 Revision: 02.06.2016

For professional use only

- **1.1 Product identifier** For professional use only
 - Trade name: **QAD Enamel 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
 - Surface Coating
 - Surface Coating/Topcoat
- **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)

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
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, GHS07, GHS08

· **Signal word** Warning

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Trade name: **QAD Enamel Colours**

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· **Hazard-determining components of labelling:**

Xylene (mix)

· **Hazard statements**

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause damage to the hearing organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

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

· **Additional information:**

Contains methyl methacrylate, 2-butanone oxime. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 1330-20-7

EINECS: 215-535-7

Xylene (mix)

~☞ Flam. Liq. 3, H226; ~☠ STOT RE 2, H373; Asp. Tox. 1, H304; ~☞ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;

STOT SE 3, H335; Aquatic Chronic 3, H412

25-50%

CAS: 90989-38-1

EINECS: 292-694-9

Xylene (mixed isomers)

~☞ Flam. Liq. 3, H226; ~☠ Asp. Tox. 1, H304; ~☞ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315

10-25%

CAS: 108-65-6

EINECS: 203-603-9

2-methoxy-1-methylethyl acetate

~☞ Flam. Liq. 3, H226

2.5-10%

CAS: 100-41-4

EINECS: 202-849-4

ethylbenzene

~☞ Flam. Liq. 2, H225; ~☠ STOT RE 2, H373; Asp. Tox. 1, H304; ~☞ Acute Tox. 4, H332

2.5-10%

CAS: 100-42-5

EINECS: 202-851-5

styrene monomer

~☞ Flam. Liq. 3, H226; ~† Repr. 2, H361d; STOT RE 1, H372; ~Ⓝ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319

≤ 2.5%

CAS: 108-88-3

EINECS: 203-625-9

toluene

~☞ Flam. Liq. 2, H225; ~† Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ~Ⓝ Skin Irrit. 2, H315; STOT SE 3, H336

≤ 2.5%

CAS: 96-29-7

EINECS: 202-496-6

2-butanone oxime

~† Carc. 2, H351; ~† Eye Dam. 1, H318; ~Ⓝ Acute Tox. 4, H312; Skin Sens. 1, H317

≤ 2.5%

CAS: 80-62-6

EINECS: 201-297-1

methyl methacrylate

~☞ Flam. Liq. 2, H225; ~Ⓝ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335

≤ 2.5%

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

· **4.1 Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

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. If symptoms persist, consult a doctor.

· **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.

· **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.

· **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.

· **7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Ensure good ventilation/extraction at the workplace.

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Prevent formation of aerosols.

Hygiene measures:

Wash hands before breaks and at the end of workday.

Use protective skin cream before handling the product.

· **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:** *No special requirements.*

· **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.*

· **Additional information about design of technical facilities:** *No further data; see item 7.*

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

1330-20-7 Xylene (mix)

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

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

WEL Short-term value: 548 mg/m³, 100 ppm

Long-term value: 274 mg/m³, 50 ppm

Sk

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm

Long-term value: 441 mg/m³, 100 ppm

Sk

· **DNELs**

1330-20-7 Xylene (mix)

Dermal DNEL 108 mg/day (Con)

180 mg/day (Ind)

Inhalative DNEL 14.8 mg/m³ (Con)

77 mg/m³ (Ind)

90989-38-1 Xylene (mixed isomers)

Oral DNEL 1.6 mg/day (Con)

Dermal DNEL 108 mg/day (Con)

Inhalative DNEL 14.8 mg/m³ (Con)
77 mg/m³ (Ind)

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

Oral DNEL 1.67 mg/day (Con)
Dermal DNEL 54.8 mg/day (Con)
153.5 mg/day (Ind)
Inhalative DNEL 33 mg/m³ (Con)

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275 mg/m³ (Ind)

100-42-5 styrene monomer

Oral DNEL 2.1 mg/day (Con)
Dermal DNEL 343 mg/day (Con)
406 mg/day (Wor)
Inhalative DNEL 10.2 mg/m³ (Con)
85 mg/m³ (Wor)

108-88-3 toluene

Oral DNEL 8.13 mg/day (Human)
Dermal DNEL 226 mg/day (Human)
Inhalative DNEL 56.5 mg/m³ (Human)

80-62-6 methyl methacrylate

Dermal DNEL 8.2 mg/day (Con)
13.67 mg/day (Ind)
Inhalative DNEL 74.3 mg/m³ (Con)
210 mg/m³ (Ind)

· PNECs

CAS No. 1330-20-7 Xylene mixed isomers

- Fresh water; 0.327 mg/l
- Marine water; 0.327 mg/l
- Intermittent release; 0.327 mg/l
- STP; 6.58 mg/l
- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg

· Ingredients with biological limit values:

1330-20-7 Xylene (mix)

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

· 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.

If spraying this product, an ABEK respirator to EN141 and EN405 is normally sufficient. If in doubt, consult a respirator manufacturer and show this safety data sheet.

· Protection of hands:

When skin exposure may occur, advice should be sought from the glove supplier on appropriate types and usage times for this product.

S Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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:

R Tightly sealed goggles

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Colour: According to product specification

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 136 °C

· Flash point: 24 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: > 432 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: 1.0 Vol %

Upper: 7.0 Vol %

· Vapour pressure at 20 °C: 6.7 hPa

· Density at 20 °C: 0.976 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.

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· **Viscosity:**

Dynamic at 20 °C: 200 mPas

Kinematic: Not determined.

· **Solvent content:**

Organic solvents: 37.4 %

Solids content: 45.2 %

· **9.2 Other information** No further relevant information available.

· **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

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

1330-20-7 Xylene (mix)

Oral LD50 4300 mg/kg (rat)

Dermal LD50 2000 mg/kg (rbt)

90989-38-1 Xylene (mixed isomers)

Oral LD50 3523 mg/kg (Rat)

Dermal LD50 12126 mg/kg (Rab)

Inhalative LC50/4 h 27000 mg/l (Rat)

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

Oral LD50 8500 mg/kg (rat)

Dermal LD50 5000 mg/kg (Rat)

Inhalative LC50/4 h 35.7 mg/l (rat)

100-41-4 ethylbenzene

Oral LD50 3500 mg/kg (rat)

Dermal LD50 17800 mg/kg (rbt)

100-42-5 styrene monomer

Oral LD50 5000 mg/kg (Rat)

Inhalative LC50/4 h 24 mg/l (Rat)

108-88-3 toluene

Oral LD50 5000 mg/kg (Rat)

Dermal LD50 >5000 mg/kg (Rat)

Inhalative LC50/4 h 20 mg/l (Rat)

96-29-7 2-butanone oxime

Oral LD50 2326 mg/kg (rat)

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Dermal LD50 1000 mg/kg (Rab)

200-2000 mg/kg (rat)

Inhalative LC50/4 h 4.8 mg/l (rat)

80-62-6 methyl methacrylate

Inhalative LC50/4 h 29.8 mg/l (Rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **CMR effects (carcinogenicity, 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**
May cause respiratory irritation.
 - **STOT-repeated exposure**
May cause damage to the hearing organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **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.

· **Ecotoxicological effects:**

- **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

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.

· 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.

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· 14.1 UN-Number

- **ADR, IMDG, IATA UN1263**

· 14.2 UN proper shipping name

- **ADR 1263 PAINT (not viscous)**

· **IMDG PAINT**

· **IATA Paint**

· 14.3 Transport hazard class(es)

- **ADR, IMDG, IATA**

dc

- **Class 3 Flammable liquids.**

· **Label 3**

- **14.4 Packing group**

- **ADR, IMDG, IATA III**

· 14.5 Environmental hazards:

- **Marine pollutant:** No

- **14.6 Special precautions for user** Warning: Flammable liquids.

- **Danger code (Kemler):** 30

- **EMS Number:** F-E,S-E
- **Stowage Category** A
- **14.7 Transport in bulk according to Annex 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 (NOT VISCOUS), 3, III

- **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

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- **National regulations:**
- **Technical instructions (air):**
 - Class Share in %**
 - I 0.2
 - NK 37.4
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS:** Product safety department: LABORATORY
- **Contact:** Health & Safety Officer

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

PNEC: Predicted No-Effect Concentration (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, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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