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

Printing date 08.07.2020 Revision: 06.08.2019

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

- · 1.1 Product identifier For professional use only
- · Trade name: OAD Enamel Colours (Contains Lead)
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against Surface Coating
- · Application of the substance / the mixture

Surface Coating

Use of the substance/preparation: Restricted to industrial and professional coatings, plastics and roadmarking.

Description of Uses for Pigment Yellow 34 CAS No. 1344-37-2:

REACH/16/3/0: Distribution and mixing of pigment powder in an industrial environment into solvent-based paints for non-consumer use. REACH/16/3/1: Industrial application of paints on metal surfaces (such as machines vehicles, structures, signs, road furniture, coil coating, etc.) REACH/16/3/2: Professional, non-consumer application of paints on metal surfaces (such as machines, vehicles, structures, signs, road, furniture, etc.) or as road marking.

Use of the substance/preparation: Restricted to industrial and professional coatings, plastics and roadmarking.

Description of Uses for Pigment Red 104 Cas No 12656-85-8:

REACH/16/3/6: Distribution and mixing of pigment powder in an industrial environment into solvent-based paints for non-consumer use. REACH/16/3/7: Industrial application of paints on metal surfaces (such as machines vehicles, structures, signs, road furniture, coil coating, etc.) REACH/16/3/8: Professional, non-consumer application of paints on metal surfaces (such as machines, vehicles, structures, signs, road furniture, etc.) or as road marking.

Surface Coating/Topcoat

· Uses advised against

This product must not be used for decorative coatings, children's articles (including toys, paints, jewellery & equipment), consumer products, printing inks for consumer products, food and food packaging, drugs and medical devices, ceramics and glassware, cosmetics and tattoos.

Formulation of the pigment in paint, plastic and plasticised articles for children/consumer use. The use of the pigment is restricted in Annex XVII of REACH, entries 28 and 30.

- · 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.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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Carc. 1B H350 May cause cancer.

Repr. 1A H360Df May damage the unborn child. Suspected of damaging fertility.

STOT SE 3 H335 May cause respiratory irritation.

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information:

Contains: C.I. Pigment Yellow 34 Restricted to Professional and Industrial Users. Authorisation number: REACH/16/3/0, REACH/16/3/1, REACH/16/3/2

Contains: C.I. Pigment Red 104 Restricted to Professional and Industrial Users. Authorisation number: REACH/16/3/6, REACH/16/3/7, REACH/16/3/8

· 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

· Signal word Danger

· Hazard-determining components of labelling:

Xylene (mix)

Lead sulphochromate yellow (PY34)

Lead chromate molybdate sulphate (PR104)

2-butanone oxime

methyl methacrylate

· Hazard statements H226 Flammable liquid and vapour.

Causes skin irritation. H315

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H360Df May damage the unborn child. Suspected of damaging fertility.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 *Toxic to aquatic life with long lasting effects.*

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P241 *Use explosion-proof [electrical/ventilating/lighting] equipment.*

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

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

regulations.

· Additional information:

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

Contains chromium (VI). May produce an allergic reaction.

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- $\cdot \, 2.3 \,\, Other \,\, hazards$
- · Results of PBT and vPvB assessment

· *PBT*:

108-88-3 Toluene

· vPvB:

108-88-3 Toluene

SECTION 3: Composition/information on ingredients

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

Dangerous components:		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	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	25-50%
CAS: 90989-38-1 EINECS: 292-694-9 Reg.nr.: 01-2119486136-34	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: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene	2.5-10%
CAS: 1344-37-2 EINECS: 215-693-7 Reg.nr.: 01-2119502446-46-0003	Lead sulphochromate yellow (PY34) Resp. Sens. 1, H334; Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	2.5-10%
CAS: 12656-85-8 EINECS: 235-759-9 Reg.nr.: 01-2119491303-42-0003	Lead chromate molybdate sulphate (PR104) Resp. Sens. 1, H334; Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	2.5-10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ♦ Flam. Liq. 3, H226; ♦ STOT SE 3, H336	≤ 2.5%
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32-XXXX	styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	<i>≤</i> 2.5%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-xxxx	Toluene PBT; vPvB ♠ 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	<i>≤</i> 2.5%
CAS: 96-29-7 EINECS: 202-496-6 Reg.nr.: 01-2119539477-28	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 Reg.nr.: 01-2119452498-28-xxxx	methyl methacrylate † Flam. Liq. 2, H225; † Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≤ 2.5%

· SVHC	
1344-37-2	Lead sulphochromate yellow (PY34)
12656-85-8	Lead chromate molybdate sulphate (PR104)

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· 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.
- · After inhalation:

Supply fresh air and call for a doctor.

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

 ${\it Treat\ symptomatically}.$

Treatment: The presence of lead in the body can be detected by determining the amount of this substance in the blood and/or urine.

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.

Reactivity: May be dissolved in strong acids or alkalis. In the event of a fire, oxides of lead, chromium and antimony may be generated.

- · 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.

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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.

Open and handle receptacle with care.

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 [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

 $\cdot \textbf{\textit{Additional information about design of technical facilities:}} \ \textit{No further data; see item 7.} \\$

Ingre	edients 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		
100-4	0-41-4 ethylbenzene		
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk		
108-6	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		
100-4	12-5 styrene		
WEL	Short-term value: 1080 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm		
108-8	88-3 Toluene		
WEL	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm		

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96-29-7 2-1	butano		td. of pa
		value: 1 mg/m³, 0.3 ppm	
		nethacrylate	
WEL Short-term value: 416 mg/m³, 100 ppm			
Long-term value: 208 mg/m³, 50 ppm			
DNELs			
1330-20-7	Xylene	e (mix)	
Dermal	DNEL	108 mg/day (Con)	
		180 mg/day (Ind)	
Inhalative	DNEL	$14.8 \text{ mg/m}^3 (Con)$	
		77 mg/m^3 (Ind)	
		ulphochromate yellow (PY34)	
		0.0013 mg/day (Ind)	
		5 mg/day (Ind)	
		chromate molybdate sulphate (PR104)	
		0.0013 mg/day (Ind)	
		5 mg/day (Ind)	
		$0.006 \text{ mg/m}^3 \text{ (Ind)}$	
		oxy-1-methylethyl acetate	
		1.67 mg/day (Con)	
Dermal	DNEL	54.8 mg/day (Con)	
		153.5 mg/day (Ind)	
Inhalative	DNEL	$33 \text{ mg/m}^3 (Con)$	
		$275 \text{ mg/m}^3 \text{ (Ind)}$	
100-42-5 st			
		2.1 mg/day (Con)	
Dermal	DNEL	343 mg/day (Con)	
T 1 1	DMEL	406 mg/day (Wor)	
Inhalative	DNEL	$10.2 \text{ mg/m}^3 (Con)$	
100 00 27	7 7	85 mg/m³ (Wor)	
108-88-3 T			
		8.13 mg/day (Con)	
Dermal	DNEL	226 mg/day (Con)	
Inhalatina	DNEI	384 mg/day (Ind) 56.5 mg/m³ (Con)	
ınnatative	DNEL	$192 \text{ mg/m}^3 \text{ (Ind)}$	
96-29-7 2-1	hutano		
		0.78 mg/day (Con)	
Dimmi	DIVIL	1.3 mg/day (Ind)	
Inhalative	DNFI	2.7 mg/m³ (Con)	
11111111111111111	J. YLL	9 mg/m^3 (Ind)	
80-62-6 m	ethvl m	pethacrylate	
	-	8.2 mg/day (Con)	
		13.67 mg/day (Ind)	
	DMEL	74.3 mg/m^3 (Con)	
Inhalative	DNEL		

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· 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

CAS No 1344-37-2 Lead Sulphochromate & CAS No 12656-85-8 Lead chromate molybdate sulphate.

PNEC (Water)

PNEC aqua (freshwater) 0.1 mg/l

PNEC aqua (marine water) 0.01 mg/l PNEC (Sediment)

PNEC sediment (freshwater) 148 mg/kg dwt Chromate

PNEC sediment (marine water) 14.8 mg/kg dwt Chromate PNEC (Soil)

PNEC soil 29.5 mg/kg dwt Chromate PNEC (STP)

PNEC sewage treatment plant1000 mg/l

· 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.

Wear a respirator type APF 20, FFP3 (EN 149:2001) or equivalent.

· 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.



Protective gloves

· Material of gloves

PVC or rubber gloves. Chemical resistant gloves (EN374). Suitable materials also prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time according to EN 374.

· 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

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SECTION 9: Physical and chemic	cal properties	
· 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/freezing point:	Undetermined.	
Initial boiling point and boiling range:	∙ 136 °C	
· Flash point:	24 °C	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	> 432 °C	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive. However, formation of explosive a 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:	1.015 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:	200 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	52.4 %	
Solids content:	47.2 %	
· 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.

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· 10.6 Hazardous decomposition products:

Thermal decomposition or burning may release oxides of lead, chromium and antimony, toxic gases/vapours.

SECTION 11: Toxicological information

- · 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	5,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (rbt)
Inhalative	LC50/4 h	11 mg/l (Rat)
100-41-4 е	thylbenzer	100
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rbt)
1344-37-2	Lead sulp	hochromate yellow (PY34)
Oral	LD50	>10,000 mg/kg (rat)
12656-85-	8 Lead chr	comate molybdate sulphate (PR104)
Oral	LD50	>10,000 mg/kg (Rat)
108-65-6 2	-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)
100-42-5 styrene		
Oral	LD50	5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	11.8 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)
96-29-7 2-butanone oxime		
Oral	LD50	2,326 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (Rab)
		200-2,000 mg/kg (rat)
Inhalative	LC50/4 h	>4.8 mg/l (rat)
80-62-6 methyl methacrylate		
Oral	LD50	7,900 mg/kg (Rat)
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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.

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· Carcinogenicity

The EC classifies C.I. Pigment Yellow 34 and C.I. Pigment Red 104 as carcinogenic category 1B. May cause cancer.

· Reproductive toxicity

The EC classifies C.I. Pigment Yellow 34 and C.I. Pigment Red 104 as toxic for reproduction category 1A. May damage the unborn child. Suspected of damaging fertility.

· STOT-single exposure

May cause respiratory irritation.

· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

The EC classifies C.I. Pigment Yellow 34 and C.I. Pigment Red 104 as STOT repeated exposure Cat. 2 (route: oral, target organs: liver, kidney, nervous system).

LOAEL (oral, rat, 90 days)

1600 mg/kg bodyweight/day

NOAEL (oral, rat, 90 days)

288 mg/kg bodyweight/day

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

CAS No 1344-37-2 Lead sulphochromate & CAS No 12656-85-8 Lead chromate molybdate sulphate.

LC50 fishes 1 > 10000 mg/l Leuciscus idus 96h (test method comparable to OECD 203)

EC50 Daphnia 1 > 100 mg/l Daphnia magna 48h (test method comparable to OECD 202)

EC50 other aquatic organisms 1 > 100 mg/l Scenedesmus subspicatus 72h (OECD 201)

LC50 fish 2 > 100 mg/kg Oncorhychus mykiss 96h

EC50 other aquatic organisms 2 > 10000 ml/l Pseudomonas putida 30m

NOEC (chronic) 0.7 mg/l Daphia magna 21d

NOEC chronic fish 1 mg/l Pimephales promelas 60d

NOEC (additional information) Ecotoxicity data based on tests on similar product.

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential

CAS No 1344-37-2 Lead sulphochromate & CAS No 12656-85-8 Lead chromate molybdate sulphate.

Bioconcentration factor (BCF REACH) < 2000

Log Pow Not Applicable

Log Kow Not Applicable

Bioaccumulative potential Due to the very low solubility of C. I. Pigment Yellow 34 in water the bioavailability of the substance is expected to be low. Therefore, the bioaccumulation potential of the substance is expected to be low.

- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for 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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· PBT:

108-88-3 Toluene

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 $\cdot vPvB$:

108-88-3 Toluene

· 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 · IMDG	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (Lead sulphochromate yellow (PY34), Leachromate molybdate sulphate (PR104)), MARING POLLUTANT PAINT
	7711172
· 14.3 Transport hazard class(es) · ADR, IMDG	
· Class	3 Flammable liquids.
· Label	3
· Class	3 Flammable liquids.
	3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substance. Lead sulphochromate yellow (PY34), Lead chromate molybdate sulphate (PR104)
· Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30 F. F. G. F.
EMS Number:	F-E,S-E
· Segregation groups	Heavy metals and their salts (including their organometallic compounds)

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Trade name: QAD Enamel Colours (Contains Lead)

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

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

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

	z		
· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)			
	1344-37-2	Lead sulphochromate yellow (PY34)	
	12656-85-8	Lead chromate molybdate sulphate (PR104)	

- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 30, 47, 72
- · National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group III (dangerous).
- · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Technical instructions (air):

Class	Share in %
Ι	0.2
II	2.9
NK	52.4

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

REACH Candidate List (Substance of Very High Concern): C.I. Pigment Red 104 has been added to the "Candidate List" of Substances of Very High Concern (SVHC).

REACH ANNEX XIV: C.I. Pigment Yellow 34 is listed in Annex XIV of Regulation (EC) 1907/2006.

REACH ANNEX XVII: The use of the pigment is restricted in Annex XVII of REACH, entries 28 and 30.

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Directive 2004/37/EC: Protection of workers from the risks related to exposure to carcinogens or mutagens at work

Directive 92/85/EEC: Protection of pregnant workers and workers who have recently given birth or are breastfeeding

Directive 94/33/EC: Minimum requirements for the protection of young people at work

Regional legislation: Labelling in accordance with Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.

1344-37-2 Lead sulphochromate yellow (PY34)

12656-85-8 Lead chromate molybdate sulphate (PR104)

· 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.

Respiratory Sensitisation: Based on the available case reports such as the European Union Risk Assessment Report (RAR), it is concluded that hexavalent chromium compounds can cause occupational asthma and respiratory sensitisation. As Cr (VI) is a transformation product of this pigment, this information can be read across to address the respiratory sensitising potential of C.I. Pigment Yellow 34 and C.I Pigment Red 104. The likelihood of respiratory sensitization of C.I. Pigment Yellow 34 and C.I Pigment Red 104 is however considered very low due to very poor bioavailability. No information is available for C.I. Pigment Yellow 34 and C.I Pigment Red 104.

Skin sensitisation: Available information for hexavalent chromium, Cr (VI), including the European Union Risk Assessment Report (RAR), can be read across to address the skin sensitising potential of C.I. Pigment Yellow 34 and C.I Pigment Red 104. It can be assumed that the skin sensitising properties of this transformation product Cr (VI) can be held responsible for the skin sensitising potential of the pigment. The likelihood of skin sensitization of C.I. Pigment Yellow 34 and C.I Pigment Red 104 is however considered very low due to very poor bioavailability. No information is available for C.I. Pigment Yellow 34 and C.I Pigment Red 104.

Carcinogenicity: As noted in the OSHA Lead Standard, repeated and prolonged exposures may cause delayed effects involving the blood, gastro-intestinal, nervous and reproductive systems. Chronic overexposure may cause effects of chronic lead toxicity. "Chromium and certain chromium compounds" are currently classified by IARC (Group 2B) as possible carcinogens but it is stipulated that 'the compound(s) responsible for the carcinogenic effect in humans cannot be specified'. ACGIH currently lists 'chromates of lead' as 'substances suspect of carcinogenic potential for man' (see appendix A2 of ACGIH TLV booklet). EPA's health assessment document for chromium states that 'animal cancer bioassay studies suggest that hexavalent chromium compounds (particularly soluble and sparingly soluble compounds) are probably the etiological agent in chromium related human cancer. Data supporting this position exists in both rats and humans. Rat bronchial implant studies have shown that only calcium, strontium and zinc chromates produced statistically significant increases in the numbers of bronchial carcinomas while no such increases were seen with seven different samples of lead chromate pigments (Levy et al., 1986). All hexavalent chromium compounds (including lead chromates) are considered to be suspect human carcinogens. However, available epidemiological evidence on C.I. Pigment Yellow 34 and Red 104 does not confirm this position. In every case where excess lung cancer incidences have been reported, exposure was either to zinc chromate alone or involved mixed exposures to various combinations of zinc, lead, strontium and barium chromates. In the studies where exposure was reported to be C.I. Pigment Yellow 34 and Red 104 alone, no increased incidence in lung cancer was observed.

· Full text of H-Statements referred to under sections 2 and 3:

- 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.

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(Contd. of page 13) H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H351 Suspected of causing cancer. H360Df May damage the unborn child. Suspected of damaging fertility. 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. 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 SVHC: Substances of Very High Concern 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 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 1B: Carcinogenicity - Category 1B Carc. 2: Carcinogenicity - Category 2 Repr. 1A: Reproductive toxicity – Category 1A 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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

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