

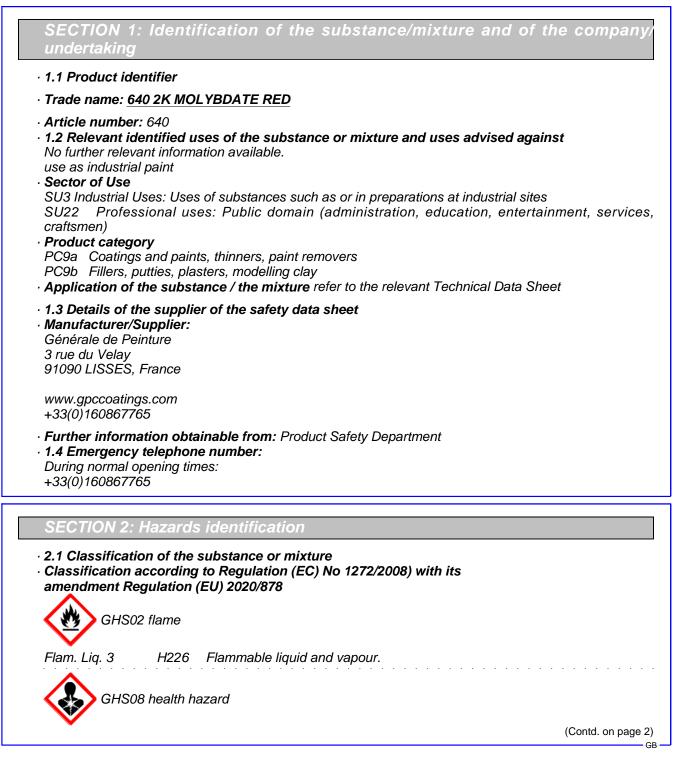
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## Safety data sheet according to UK REACH

Printing date 07.02.2025

Version number 1.1

Revision: 29.07.2024





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## Safety data sheet

according to UK REACH Printing date 07.02.2025 Version number 1.1 Revision: 29.07.2024 Trade name: 640 2K MOLYBDATE RED (Contd. of page 1) Carc. 1B H350 May cause cancer. Repr. 1A H360Df May damage the unborn child. Suspected of damaging fertility. STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Skin Irrit. 2 H315 Causes skin irritation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS02 GHS07 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: Lead chromate molybdate sulfate red · Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H350 May cause cancer. H360Df May damage the unborn child. Suspected of damaging fertility. H373 May cause damage to the hearing organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Use explosion-proof [electrical/ventilating/lighting] equipment. P241

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#### Trade name: 640 2K MOLYBDATE RED

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+F	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water [or shower].
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
2 3 Other haz	zards

#### 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.

CAS: 12656-85-8 EINECS: 235-759-9	Lead chromate molybdate sulfate red Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	>10- <i>≤</i> 25%
	xylene	>10- <i>≤</i> 25%
	n-butyl acetate 📎 Flam. Liq. 3, H226; 🐠 STOT SE 3, H336	>10- <i>≤</i> 25%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35 05-2116598517-27	Solvent naphtha (petroleum), light arom. ① Acute Tox. 4, H332; STOT SE 3, H335	>2.5- <i>≤</i> 10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29 05-2116413226-56	2-methoxy-1-methylethyl acetate	<i>≤</i> 2.5%
	ethylbenzene � Flam. Liq. 2, H225; � STOT RE 2, H373; Asp. Tox. 1, H304; 🕦 Acute Tox. 4, H332	<i>≤</i> 2.5%



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CAS: 1309-64-4	antimony trioxide	<i>≤</i> 2.5%
EINECS: 215-175-0	🚸 Carc. 2, H351	1
CAS: 872-50-4	N-methyl-2-pyrrolidone	<i>≤</i> 2.5%
EINECS: 212-828-1	🕹 Repr. 1B, H360D; 0 Skin Irrit. 2, H315; Eye Irrit. 2,	
Reg.nr.: 01-2119472430-46	H319; STOT SE 3, H335	

·SVHC

12656-85-8 Lead chromate molybdate sulfate red

872-50-4 N-methyl-2-pyrrolidone

· 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.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **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** No further relevant information available.

#### 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: Mouth respiratory protective device.

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#### **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. 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 section 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 Ensure good ventilation/exhaustion 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see section 7.

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-	dients with limit values that require monitoring at the workplace:	(Contd. of pag
	6-85-8 Lead chromate molybdate sulfate red	
WEL	Long-term value: 0.01 0.025* mg/m <sup>3</sup> as Cr; Carc, Sen, BMGV; *process generated	
1330-	20-7 xylene	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV	
123-8	6-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
108-6	5-6 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	1-4 ethylbenzene	
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk	
1309-	64-4 antimony trioxide	
	Long-term value: 0.5 mg/m <sup>3</sup> as Sb	
872-5	0-4 N-methyl-2-pyrrolidone	
	Short-term value: 80 mg/m³, 20 ppm Long-term value: 40 mg/m³, 10 ppm Sk	
Ingre	dients with biological limit values:	
12656	6-85-8 Lead chromate molybdate sulfate red	
	<ul> <li>V 10 μmol/mol creatinine</li> <li>Medium: urine</li> <li>Sampling time: post shift</li> <li>Parameter: chromium</li> </ul>	
1330-	20-7 xylene	
BMG	<ul> <li>650 mmol/mol creatinine</li> <li>Medium: urine</li> <li>Sampling time: post shift</li> <li>Parameter: methyl hippuric acid</li> </ul>	
Addit	<b>ional information:</b> The lists valid during the making were used as basis.	(Contd. on pag



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#### Trade name: 640 2K MOLYBDATE RED

- · 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 skin. Avoid contact with the eyes and skin.
- · Respiratory protection:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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:



Tightly sealed goggles

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9.1 Information on basic physical and o	chemical properties
General Information Appearance:	
Form:	Liquid
Colour:	Red
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	
Flash point:	25 ℃
Flammability	Flammable.
Auto-ignition temperature:	370 °C
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosival air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	7.5 Vol %
Vapour pressure at 20 °C:	10.7 hPa
Density at 20 °C:	1.33 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	35.1 %



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#### Trade name: 640 2K MOLYBDATE RED

VOC (EC)

466.8 g/l 64.7 %

· 9.2 Other information

Solids content:

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 known.

#### 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:

#### 12656-85-8 Lead chromate molybdate sulfate red

Oral LD50 >5,000 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · 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.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- May cause cancer.
- Reproductive toxicity
- May damage the unborn child. Suspected of damaging fertility.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

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

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

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#### SECTION 12: Ecological information

- · 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely 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:** 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.

# SECTION 14: Transport information • 14.1 UN-Number • ADR, IMDG, IATA UN1263 • 14.2 UN proper shipping name • ADR 1263 PAINT, ENVIRONMENTALLY HAZARDOUS • IMDG, IATA PAINT



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<ul> <li>14.3 Transport hazard class(es)</li> </ul>	NOT APPLICABLE
ADR, IMDG	
Class	3 Flammable liquids.
Label	3
IATA	
· Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards:	
Marine pollutant:	No Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E,S-E
Stowage Category	A
· 14.7 Transport in bulk according to Annex II o	f
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
Transport catogory	Maximum net quantity per outer packaging: 1000 3
· Transport category · Tunnel restriction code	J/E



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<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	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
- · Poisons Act
- Regulated explosives precursors

None of the ingredients is listed.

#### · Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

#### · Reportable poisons

None of the ingredients is listed.

- · 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

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV	)
12656-85-8 Lead chromate molybdate sulfate red	Sunset date: 2015-05-21

· 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.

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· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to UK REACH

12656-85-8 Lead chromate molybdate sulfate red

872-50-4 N-methyl-2-pyrrolidone

· 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.

#### · 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.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.
- H351 Suspected of causing cancer.
- H360D May damage the unborn child.

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

- 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.
- · Department issuing SDS: Product safety department
- · Contact: N/A

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international 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) VOC: Volatile Organic Compounds (USA, EU) 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



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Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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
$\cdot$ * Data compared to the previous version altered.

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