



Safety Data Sheet according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

1 Identification

- **Product identifier**
- **Trade name:** 640 2K MOLYBDATE RED
- **Article number:** 640
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
General Paint Co. S.A.L.
P.O. Box 7623
Beirut
LEBANON
info@generalpaint.biz
- **Information department:** Product Safety Department
- **Emergency telephone number:** 1-800-535-5053 contract number (89244)

2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 3

H226 Flammable liquid and vapour.



GHS08 Health hazard

Carcinogenicity - Category 1A

H350 May cause cancer.

Reproductive Toxicity - Category 1A

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

CA



Safety Data Sheet according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 1)

· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word *Danger***· Hazard-determining components of labeling:***Lead chromate molybdate sulfate red
ethylbenzene**N-methyl-2-pyrrolidone
Quartz (SiO₂)***· Hazard statements***Flammable liquid and vapour.**Causes skin irritation.**May cause cancer.**May damage fertility or the unborn child.**May cause damage to the hearing organs through prolonged or repeated exposure.***· Precautionary statements***If medical advice is needed, have product container or label at hand.**Keep out of reach of children.**Read label before use.**Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**Keep container tightly closed.**Ground and bond container and receiving equipment.**Use explosion-proof [electrical/ventilating/lighting] equipment.**Use non-sparking tools.**Take actions to prevent static discharges.**Do not breathe dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Wear protective gloves/protective clothing/eye protection/face protection.**IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**IF exposed or concerned: Get medical advice/attention.**Specific treatment (see on this label).**Get medical advice/attention if you feel unwell.**Take off contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**In case of fire: Use CO₂, powder or water spray to extinguish.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 3)

CA



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 2)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 3
Reactivity = 0

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

12656-85-8	Lead chromate molybdate sulfate red	10-30% w/w *
1330-20-7	xylene	10-30% w/w *
123-86-4	n-butyl acetate	7-13% w/w *
64742-95-6	Solvent naphtha (petroleum), light arom.	1-5% w/w *
108-65-6	2-methoxy-1-methylethyl acetate	1-5% w/w *
100-41-4	ethylbenzene	1-5% w/w *
14808-60-7	Quartz (SiO ₂)	0.5-1.5% w/w *
1309-64-4	antimony trioxide	0.1-1% w/w *
872-50-4	N-methyl-2-pyrrolidone	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

- **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.

(Contd. on page 4)

CA



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 3)

- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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.
- **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 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

(Contd. on page 5)

CA



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 4)

- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **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.
- **Storage class:** 3
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

12656-85-8 Lead chromate molybdate sulfate red

EL TWA: 0.01 mg/m³
as Cr; ACGIH A1, IARC 1; S(D), S(R)

1330-20-7 xylene

EL STEL: 150 ppm
TWA: 100 ppm
EV STEL: 650 mg/m³, 150 ppm
TWA: 435 mg/m³, 100 ppm

123-86-4 n-butyl acetate

EL STEL: 150 ppm
TWA: 50 ppm
EV STEL: 950 mg/m³, 200 ppm
TWA: 710 mg/m³, 150 ppm

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

EL STEL: 75 ppm
TWA: 50 ppm
EV TWA: 270 mg/m³, 50 ppm

100-41-4 ethylbenzene

EL TWA: 20 ppm
IARC 2B

(Contd. on page 6)

CA



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 5)

EV	STEL: 540 mg/m ³ , 125 ppm TWA: 435 mg/m ³ , 100 ppm
14808-60-7 Quartz (SiO₂)	
EL	TWA: 0.025 mg/m ³ ACGIH A2; IARC 1
EV	TWA: 0.10* mg/m ³ *respirable fraction
1309-64-4 antimony trioxide	
EL	ACGIH A2, IARC 2B
872-50-4 N-methyl-2-pyrrolidone	
EV	TWA: 400 mg/m ³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **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.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **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.

(Contd. on page 7)

CA



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 6)

· 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

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:****Form:**

Liquid

Color:

Red

· Odor:

Characteristic

· Odor threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition**Melting point/Melting range:**

Undetermined.

Boiling point/Boiling range:

127 °C

· Flash point:

25 °C

· Flammability:

Flammable.

· Auto igniting:

370 °C

· Decomposition temperature:

Not determined.

· Ignition temperature:

Product is not selfigniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:**Lower:**

1.1 Vol %

Upper:

7.5 Vol %

· Vapor pressure at 20 °C:

10.7 hPa

· Density at 20 °C:1.33 g/cm³**· Relative density**

Not determined.

· Vapor density

Not determined.

(Contd. on page 8)

CA



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 7)

- | | |
|---|--|
| · 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 % |
| Coating VOC content: | 35.10 % |
| | 466.8 g/l / 3.90 lb/gal |
| Material VOC content: | 466.8 g/l / 3.90 lb/gal |
| Solids content: | 64.7 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

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

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
- 12656-85-8 Lead chromate molybdate sulfate red**
- Oral LD50 >5,000 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

(Contd. on page 9)

-CA-



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 8)

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

12656-85-8	Lead chromate molybdate sulfate red	1
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
14808-60-7	Quartz (SiO ₂)	1
1309-64-4	antimony trioxide	2B
80-62-6	methyl methacrylate	3
97-88-1	n-butyl methacrylate	2B

NTP (National Toxicology Program)

12656-85-8	Lead chromate molybdate sulfate red	K
14808-60-7	Quartz (SiO ₂)	K
1309-64-4	antimony trioxide	R

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:**General notes:**

Water hazard class 3 (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.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

CA

(Contd. on page 10)



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024




Trade name: 640 2K MOLYBDATE RED

(Contd. of page 9)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT/TDG, ADR, IMDG, IATA** UN1263
- **UN proper shipping name**
- **DOT/TDG** Paint
- **ADR** 1263 Paint, ENVIRONMENTALLY HAZARDOUS
- **IMDG, IATA** PAINT
- **Transport hazard class(es)**
- **DOT/TDG (Transport dangerous goods):**

· **Class** 3 Flammable liquids
· **Label** 3
- **ADR, IMDG**
 
· **Class** 3 Flammable liquids
· **Label** 3

(Contd. on page 11)

-CA-



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 10)

· IATA

- **Class** 3 Flammable liquids
- **Label** 3

- **Packing group**
- **DOT/TDG, ADR, IMDG, IATA** III

- **Environmental hazards:**
- **Marine pollutant:** No
Symbol (fish and tree)
- **Special marking (ADR):** Symbol (fish and tree)

- **Special precautions for user** Warning: Flammable liquids
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E, S-E
- **Stowage Category** A

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

- **Transport/Additional information:**
- **DOT/TDG**
- **Quantity limitations** On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

- **ADR**
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **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, ENVIRONMENTALLY HAZARDOUS

CA

(Contd. on page 12)



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 11)

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

12656-85-8 Lead chromate molybdate sulfate red

1330-20-7 xylene

100-41-4 ethylbenzene

1309-64-4 antimony trioxide

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

80-62-6 methyl methacrylate

- **TSCA (Toxic Substances Control Act):**

12656-85-8 Lead chromate molybdate sulfate red

ACTIVE

1330-20-7 xylene

ACTIVE

123-86-4 n-butyl acetate

ACTIVE

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

ACTIVE

100-41-4 ethylbenzene

ACTIVE

14808-60-7 Quartz (SiO₂)

ACTIVE

1309-64-4 antimony trioxide

ACTIVE

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

ACTIVE

80-62-6 methyl methacrylate

ACTIVE

868-77-9 2-hydroxyethyl methacrylate

ACTIVE

78-83-1 butanol

ACTIVE

136-53-8 ZINC 2-ETHYLEXANOATE

ACTIVE

97-88-1 n-butyl methacrylate

ACTIVE

64742-88-7 Solvent naphtha (petroleum), medium aliph.

ACTIVE

7447-41-8 lithium chloride

ACTIVE

77-58-7 dibutyltin dilaurate

ACTIVE

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

1330-20-7 xylene

123-86-4 n-butyl acetate

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

100-41-4 ethylbenzene

(Contd. on page 13)



Safety Data Sheet

according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 12)

14808-60-7	Quartz (SiO ₂)
1309-64-4	antimony trioxide
872-50-4	N-methyl-2-pyrrolidone
80-62-6	methyl methacrylate
868-77-9	2-hydroxyethyl methacrylate
78-83-1	butanol
136-53-8	ZINC 2-ETHYLEXANOATE
97-88-1	n-butyl methacrylate
64742-88-7	Solvent naphtha (petroleum), medium aliph.
7447-41-8	lithium chloride
77-58-7	dibutyltin dilaurate

· Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

12656-85-8	Lead chromate molybdate sulfate red
100-41-4	ethylbenzene

· Canadian Ingredient Disclosure list (limit 1%)

123-86-4	n-butyl acetate
14808-60-7	Quartz (SiO ₂)

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word Danger**· Hazard-determining components of labeling:**

Lead chromate molybdate sulfate red
ethylbenzene
N-methyl-2-pyrrolidone
Quartz (SiO₂)

· Hazard statements

Flammable liquid and vapour.
Causes skin irritation.
May cause cancer.
May damage fertility or the unborn child.

(Contd. on page 14)

CA



Safety Data Sheet according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 13)

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

• Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

Keep container tightly closed.

Ground and bond container and receiving equipment.

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

Use non-sparking tools.

Take actions to prevent static discharges.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

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

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

• National regulations:**• Additional classification according to Decree on Hazardous Materials:**

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.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

• Department issuing SDS: Product safety department**• Contact:** N/A**• Date of the latest revision of the safety data sheet** 10/09/2024 / 1.0**• Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 15)

CA



Safety Data Sheet
according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

Trade name: 640 2K MOLYBDATE RED

(Contd. of page 14)

DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
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

· *** Data compared to the previous version altered.**

CA