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Safety Data Sheet according to HPR, Schedule 1

Printing date 10/09/2024

Reviewed on 07/29/2024

1 Identification

· Product identifier

· Trade name: 636 2K MOLYBDATE ORANGE

· Article number: 636

· 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 organs through - Category 2 prolonged or repeated exposure.



GHS07

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - H336 May cause drowsiness or dizziness.

Category 3

- · Label elements
- · GHS label elements

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

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· Hazard pictograms







GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

Lead chromate molybdate sulfate red

n-butyl acetate

Quartz (SiO2)

ethylbenzené

methyl methacrylate

2,3-epoxypropyl neodecanoate

2-hydroxyethyl methacrylate

· Hazard statements

Flammable liquid and vapour.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to 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.

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.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

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 INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

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Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

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

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

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



Health = 0 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *0
 Fire = 3
 Reactivity = 0

3 Composition/Information on ingredients

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

· Dangerous components:		
123-86-4	n-butyl acetate	10-30% w/w *
1330-20-7	xylene	5-10% w/w *
	Lead chromate molybdate sulfate red	5-10% w/w *
	2-methoxy-1-methylethyl acetate	3-7% w/w *
64742-95-6	Solvent naphtha (petroleum), light arom.	1-5% w/w *
	ethylbenzene	0.1-1% w/w *
	Quartz (SiO2)	0.1-1% w/w *
	antimony trioxide	0.1-1% w/w *
	methyl methacrylate	0.1-1% w/w *
	2,3-epoxypropyl neodecanoate	0.1-1% w/w *
868-77-9	2-hydroxyethyl methacrylate	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

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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:

Supply fresh air and to be sure call for a doctor.

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.
- · 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.

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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.

· 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:

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

1330-20-7 xylene

EL STEL: 150 ppm

TWA: 100 ppm

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

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	56-85-8 Lead chromate molybdate sulfate red
	TWA: 0.01 mg/m ³
	as Cr; ACGIH A1, IARC 1; S(D), S(R)
108	65-6 2-methoxy-1-methylethyl acetate
	STEL: 75 ppm
	TWA: 50 ppm
ΕV	TWA: 270 mg/m³, 50 ppm
100-	41-4 ethylbenzene
	TWA: 20 ppm
	IARC 2B
	STEL: 540 mg/m³, 125 ppm
	TWA: 435 mg/m³, 100 ppm
148	08-60-7 Quartz (SiO2)
	TWA: 0.025 mg/m³
	ACGIH A2; IARC 1
ΕV	TWA: 0.10* mg/m³
	*respirable fraction
130	9-64-4 antimony trioxide
EL	ACGIH A2, IARC 2B
80-6	2-6 methyl methacrylate
EL	STEL: 100 ppm
	TWA: 50 ppm
	S(D)
ΕV	STEL: 100 ppm
	TWA: 50 ppm

- · 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.

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.

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· 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.

Liquid

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

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

Color: Orange

Odor: Characteristic

Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** 124 °C

· Flash point: 25 °C

· Flammability: Flammable.

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Auto igniting:	315 ℃
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive an vapor mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
Vapor pressure at 20 °C:	10.7 hPa
Density at 20 °C:	1.102 g/cm³
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/v	water): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	42.0 %
Coating VOC content:	42.01 %
	462.9 g/l / 3.86 lb/gal
Material VOC content:	462.9 g/l / 3.86 lb/gal
Solids content:	<i>57.5</i> %
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.

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· 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: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

Irritant

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
1330-20-7	xylene	3
12656-85-8	Lead chromate molybdate sulfate red	1
100-41-4	ethylbenzene	2B
14808-60-7	Quartz (SiO2)	1
1309-64-4	antimony trioxide	2B
80-62-6	methyl methacrylate	3
97-88-1	n-butyl methacrylate	2B
· NTP (Nation	nal Toxicology Program)	
12656-85-8	Lead chromate molybdate sulfate red	K
14808-60-7	Quartz (SiO2)	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.

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- · **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.

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

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(Contd. of page 10) · Label · ADR, IMDG · Class 3 Flammable liquids · Label ·IATA 3 Flammable liquids · Class · 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) Warning: Flammable liquids · Special precautions for user · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-E · Stowage Category · 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 Code: E1 Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml (Contd. on page 12)

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· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (ÉQ) 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

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 35!	(extremely hazardous substances):	
	ingredients is listed.	
· Section 313	(Specific toxic chemical listings):	
1330-20-7	xylene	
12656-85-8	Lead chromate molybdate sulfate red	
100-41-4	ethylbenzene	
1309-64-4	antimony trioxide	
80-62-6	methyl methacrylate	
· TSCA (Toxi	c Substances Control Act):	
123-86-4	n-butyl acetate	ACTIVE
1330-20-7	xylene	ACTIVE
12656-85-8	Lead chromate molybdate sulfate red	ACTIVE
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
100-41-4	ethylbenzene	ACTIVE
	Quartz (SiO2)	ACTIVE
1309-64-4	antimony trioxide	ACTIVE
80-62-6	methyl methacrylate	ACTIVE
	2,3-epoxypropyl neodecanoate	ACTIVE
868-77-9	2-hydroxyethyl methacrylate	ACTIVE
	methacrylic acid	ACTIVE
136-53-8	ZINC 2-ETHYLEXANOATE	ACTIVE
78-83-1	butanol	ACTIVE
97-88-1	n-butyl methacrylate	ACTIVE
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77.50.7	(Contd	. of page 12)
	dibutyltin dilaurate	ACTIVE
	Solvent naphtha (petroleum), medium aliph.	ACTIVE
•	octamethylcyclotetrasiloxane	ACTIVE
	ubstance listings:	
	Oomestic Substances List (DSL)	
	n-butyl acetate	
1330-20-7		
	2-methoxy-1-methylethyl acetate	
	ethylbenzene	
•	Quartz (SiO2)	
	antimony trioxide	
	methyl methacrylate	
	2,3-epoxypropyl neodecanoate	
	2-hydroxyethyl methacrylate	
	methacrylic acid	
136-53-8	ZINC 2-ETHYLEXANOATE	
78-83-1	butanol	
97-88-1	n-butyl methacrylate	
•	dibutyltin dilaurate	
64742-88-7	Solvent naphtha (petroleum), medium aliph.	
556-67-2	octamethylcyclotetrasiloxane	
· Canadian N	Ion-Domestic Substances List (NDSL)	
None of the	ingredients is listed.	
· Canadian Ir	ngredient Disclosure list (limit 0.1%)	
12656-85-8	Lead chromate molybdate sulfate red	
	ethylbenzene	
	ngredient Disclosure list (limit 1%)	
123-86-4 n-	butyl acetate	

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02 GHS07 GHS08

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· Signal word Danger

Hazard-determining components of labeling:

Lead chromate molybdate sulfate red

n-butyl acetate

Quartz (SiO2)

ethylbenzené

methyl methacrylate

2.3-epoxypropyl neodecanoate

2-hydroxyethyl methacrylate

· Hazard statements

Flammable liquid and vapour.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to 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.

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.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

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 INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

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 or rash occurs: Get medical advice/attention.

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

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

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- · 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:

ICAO: International Civil Aviation Organisation IMDG: International Maritime Code for Dangerous Goods

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, ÉU)

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.