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Safety Data Sheet

acc. to OSHA HCS

Printing date 10/22/2024

Reviewed on 07/29/2024

1 Identification

- · Product identifier
- · Trade name: <u>637 2K ORANGE</u>
- · Article number: 637
- · Application of the substance / the mixture refer to the relevant Technical Data Sheet
- · 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(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.

GHS07

Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

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

· Hazard pictograms



· Signal word Warning

• Hazard-determining components of labeling: n-butyl acetate

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methyl metha		(Contd. of page 1
	opyl neodecanoate	
Hazard state		
	iquid and vapor.	
	an allergic skin reaction.	
	drowsiness or dizziness.	
	ary statements	
	from heat/sparks/open flames/hot surfaces No smoking.	
	d container and receiving equipment.	
	on-proof electrical/ventilating/lighting/equipment.	
	n-sparking tools.	
	itionary measures against static discharge.	
	ning dust/fume/gas/mist/vapors/spray	
	tdoors or in a well-ventilated area.	
	ed work clothing must not be allowed out of the workplace.	
	tive gloves/protective clothing/eye protection/face protection.	
	here gioves protective clothing/eye protection/lace protection.	shower
	Remove person to fresh air and keep comfortable for breathing.	snower.
	n center/doctor if you feel unwell.	
	tment (see on this label).	
	on or rash occurs: Get medical advice/attention.	
	minated clothing before reuse.	
	e: Use CO2, powder or water spray to extinguish.	
	ell-ventilated place. Keep container tightly closed.	
	ell-ventilated place. Keep cool.	
Store locked		
	contents/container in accordance with local/regional/national/international regu	ulations
Classificatio		
	ys (scale 0 - 4)	
	Health = 0	
	Fire = 3	
	Reactivity = 0	
\checkmark	•	
	ıs (scale 0 - 4)	
HEALTH 0	Health = 0	
FIRE 3	Fire = 3	
REACTIVITY 0	Reactivity = 0	
Other hazar		
	PBT and vPvB assessment	
PBT: Not app		
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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

 Dangerous 	components:	
	n-butyl acetate	>25- <i>≤</i> 50%
1330-20-7	-	>2.5- <i>≤</i> 10%
110-43-0	2-Heptanone	>2.5- <i>≤</i> 10%
64742-95-6	Solvent naphtha (petroleum), light arom.	<i>≤</i> 2.5%
	pentane-2,4-dione	<i>≤</i> 2.5%
	methyl methacrylate	<i>≤</i> 2.5%
26761-45-5	2,3-epoxypropyl neodecanoate	<i>≤</i> 2.5%

4 First-aid measures

· Description of first aid measures

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

· 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 No further relevant information available.

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· Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 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.
 Protective Action Criteria for Chemicale
- · Protective Action Criteria for Chemicals

123-86-4 n-butyl acetate	5 ppm
1330-20-7 xylene	130 ppm
110-43-0 2-Heptanone	150 ppm
108-65-6 2-methoxy-1-methylethyl acetate	50 ppm
123-54-6 pentane-2,4-dione	75 ppm
67-64-1 acetone	200 ppm
75-65-0 2-methylpropan-2-ol	150 ppm
80-62-6 methyl methacrylate	17 ppm
57-55-6 Propylene glycol	30 mg/m ²
100-41-4 ethylbenzene	33 ppm
79-41-4 methacrylic acid	6.7 ppm
868-77-9 2-hydroxyethyl methacrylate	1.9 mg/m
77-58-7 dibutyltin dilaurate	1.1 mg/m
280-57-9 triethylenediamine	5.1 mg/m
122-99-6 2-phenoxyethanol	1.5 ppm
872-50-4 N-methyl-2-pyrrolidone	30 ppm
78-83-1 butanol	150 ppm
7447-41-8 lithium chloride	2.3 mg/m
70657-70-4 2-methoxypropyl acetate	50 ppm
556-67-2 octamethylcyclotetrasiloxane	30 ppm

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PAC-2:		
123-86-4	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppm
110-43-0	2-Heptanone	670 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
123-54-6	pentane-2,4-dione	110 ppm
67-64-1	acetone	3200* ppm
75-65-0	2-methylpropan-2-ol	1,300 ppm
80-62-6	methyl methacrylate	120 ppm
57-55-6	Propylene glycol	1,300 mg/m ²
100-41-4	ethylbenzene	1100* ppm
79-41-4	methacrylic acid	61 ppm
868-77-9	2-hydroxyethyl methacrylate	21 mg/m³
	dibutyltin dilaurate	8 mg/m³
	triethylenediamine	56 mg/m³
122-99-6	2-phenoxyethanol	16 ppm
872-50-4	N-methyl-2-pyrrolidone	32 ppm
78-83-1	butanol	1,300 ppm
7447-41-8	lithium chloride	17 mg/m3
70657-70-4	2-methoxypropyl acetate	1,000 ppm
556-67-2	octamethylcyclotetrasiloxane	68 ppm
PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
110-43-0	2-Heptanone	4000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
123-54-6	pentane-2,4-dione	200 ppm
67-64-1	acetone	5700* ppm
75-65-0	2-methylpropan-2-ol	8000* ppm
80-62-6	methyl methacrylate	570 ppm
57-55-6	Propylene glycol	7,900 mg/m ²
	ethylbenzene	1800* ppm
79-41-4	methacrylic acid	220 ppm
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m ²
77-58-7	dibutyltin dilaurate	48 mg/m ³

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	triethylenediamine	340 mg/m ³
	2-phenoxyethanol	97 ppm
872-50-4	N-methyl-2-pyrrolidone	190 ppm
78-83-1		8000* ppm
	lithium chloride	100 mg/m3
	2-methoxypropyl acetate	5,000 ppm
556-67-2	octamethylcyclotetrasiloxane	130 ppm

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate

- PEL Long-term value: 710 mg/m³, 150 ppm
- REL Short-term value: 950 mg/m³, 200 ppm
 - Long-term value: 710 mg/m³, 150 ppm

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TIV	Short-term value: 150 ppm (Contd. of page
ILV	Long-term value: 50 ppm
1330	-20-7 xylene
	Long-term value: 435 mg/m³, 100 ppm
	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm BEI, A4
110-4	43-0 2-Heptanone
	Long-term value: 465 mg/m ³ , 100 ppm
REL	Long-term value: 465 mg/m ³ , 100 ppm
TLV	Long-term value: 50 ppm
123-	54-6 pentane-2,4-dione
TLV	Long-term value: 25 ppm Skin
80-62	2-6 methyl methacrylate
PEL	Long-term value: 410 mg/m³, 100 ppm
REL	Long-term value: 410 mg/m³, 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
Ingre	edients with biological limit values:
	-20-7 xylene
	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
Addi	tional information: The lists that were valid during the creation were used as basis.
• Pers • Gene Imme Wasl • Brea In ca	osure controls onal protective equipment: eral protective and hygienic measures: ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure 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.

· Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	l chemical properties	
Appearance: Form:	Liquid	
Color:	White	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	124 °C (255.2 °F)	
Flash point:	25 °C (77 °F)	
Flammability:	Flammable.	



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Auto igniting:	370 °C (698 °F)	
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 (68 °F):	10.7 hPa (8 mm Hg)	
Density at 20 °C (68 °F):	1.029 g/cm³ (8.58701 lbs/gal)	
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/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	41.1 %	
Coating VOC content:	40.56 %	
	420.1 g/l / 3.51 lb/gal	
Material VOC content:	417.4 g/l / 3.48 lb/gal	
Solids content:	58.2 %	
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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(Co • Hazardous decomposition products: No dangerous decomposition products known.	ontd. of page 9)
11 Toxicological information	
 Information on toxicological effects Acute toxicity: 	
· LD/LC50 values that are relevant for classification:	
1330-20-7 xylene	
Oral LD50 4,300 mg/kg (rat)	
Dermal LD50 2,000 mg/kg (rabbit)	
 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 r preparations: Irritant 	nethods for
· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
1330-20-7 xylene	3
80-62-6 methyl methacrylate	3
100-41-4 ethylbenzene	2B
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

· 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.

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· Additional ecological information:

· General notes:

Water hazard class 2 (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.

- · 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.

· UN-Number	1101262	
· DOT, ADR, IMDG, IATA	UN1263	
· UN proper shipping name		
DOT	Paint	
ADR	1263 PAINT	
· IMDG, IATA	PAINT	
· Transport hazard class(es)	NOT APPLICABLE	
·DOT		
· Class	3 Flammable liquids	



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Label	3
ADR, IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	<i>III</i>
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
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	
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: 30 mi 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

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.



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Sara		(Contd. of page
•	extremely hazardous substances):	
None of the in	gredients is listed.	
Section 313 (Specific toxic chemical listings):	
1330-20-7 ху		
75-65-0 2-1	methylpropan-2-ol	
80-62-6 me	ethyl methacrylate	
100-41-4 etl	hylbenzene	
	phenoxyethanol	
	methyl-2-pyrrolidone	
104-68-7 Di	ethylene glycol monophenyl ether	
TSCA (Toxic	Substances Control Act):	
123-86-4 n	-butyl acetate	ACTIV
9004-36-8 c	ellulose acetate butyrate	ACTIV
1330-20-7 x	ylene	ACTIV
110-43-0 2	-Heptanone	ACTIV
108-65-6 2	-methoxy-1-methylethyl acetate	ACTIV
123-54-6 p	entane-2,4-dione	ACTIV
67-64-1 a	cetone	ACTIV
	-methylpropan-2-ol	ACTIV
	nethyl methacrylate	ACTIV
	,3-epoxypropyl neodecanoate	ACTIV
	Propylene glycol	ACTIV
	thylbenzene	ACTIV
	nethacrylic acid	ACTIV
	-hydroxyethyl methacrylate	ACTIV
	libutyltin dilaurate	ACTIV
	riethylenediamine	ACTIV
	phenoxyethanol	ACTIV
	I-methyl-2-pyrrolidone	ACTIV
78-83-1 b		ACTIV
	thium chloride	ACTIV
	Diethylene glycol monophenyl ether	ACTIV
556-67-2 0	ctamethylcyclotetrasiloxane	(Contd. on page



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1330-20-7	xylene	
80-62-6	methyl methacrylate	
100-41-4	ethylbenzene	
Propositio	n 65	
Chemicals	known to cause cancer:	
100-41-4	ethylbenzene	
Chemicals	known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
872-50-4	V-methyl-2-pyrrolidone	
Carcinoge	nic categories	
-	ronmental Protection Agency)	
1330-20-7		1
	acetone	
75-65-0	2-methylpropan-2-ol	SC
	methyl methacrylate	E, N
100-41-4	ethylbenzene	D
TLV (Thre	shold Limit Value)	
1330-20-7		A
67-64-1	acetone	A
75-65-0	2-methylpropan-2-ol	A
80-62-6	methyl methacrylate	A
	ethylbenzene	A
77-58-7	dibutyltin dilaurate	A
NIOSH-Ca	(National Institute for Occupational Safety and Heal	th)
None of the	e ingredients is listed.	
GHS label	elements	monized System (GHS).



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(Contd. of page 14) Hazard pictograms GHS02 GHS07 Signal word Warning · Hazard-determining components of labeling: n-butyl acetate methyl methacrylate 2,3-epoxypropyl neodecanoate · Hazard statements Flammable liquid and vapor. May cause an allergic skin reaction. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Contaminated work clothing must 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/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 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.

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Date of preparation / last revision 10/22/2024 / 1.0 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of 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 D50: Lethal concentration Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Fil: Biological Exposure Limit Fil: Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	(0	Contd. of page
Contact: N/A Date of preparation / last revision 10/22/2024 / 1.0 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning International Carriage of Dangerous Goods by Road) 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 Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial 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 DD50: Lethal concentration, 50 percent DD50: Lethal concentration and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Fammable Liquids 3: Flammable liquids – Category 3 Sensitization - Skin 1: Skin sensitisation – Category 1	Department issuing SDS: Product safety department	
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