

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

1 Identification

- **Product identifier**
- **Trade name:** T310 LEMON YELLOW
- **Article number:** T310
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
General Paint Co. SAL
P.O. Box 7623
Beirut
LEBANON
info@hymax.biz
- **Information department:** Product Safety Department
- **Emergency telephone number:** During normal opening times:1-800-535-5053

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Repr. 1A H360 May damage fertility or the unborn child.



GHS07

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

· **Label elements**

· **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:**
*Quartz (SiO₂)
 Lead sulfochromate yellow
 antimony trioxide
 methyl methacrylate
 2,3-epoxypropyl neodecanoate*
- **Hazard statements**
*Flammable liquid and vapor.
 May cause an allergic skin reaction.
 May cause cancer.
 May damage fertility or the unborn child.*
- **Precautionary statements**
*Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 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
 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 exposed or concerned: Get medical advice/attention.
 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 for extinction: CO₂, powder or water spray.
 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)**



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



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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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-≤25%
1330-20-7	xylene	>2.5-≤10%
108-65-6	2-methoxy-1-methylethyl acetate	≤2.5%
1309-64-4	antimony trioxide	≤2.5%
14808-60-7	Quartz (SiO ₂)	≤2.5%
64742-95-6	Solvent naphtha (petroleum), light arom.	≤2.5%
1344-37-2	Lead sulfochromate yellow	≤2.5%
80-62-6	methyl methacrylate	≤2.5%
26761-45-5	2,3-epoxypropyl neodecanoate	≤2.5%
100-41-4	ethylbenzene	≤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.

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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.
- **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 item 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 Chemicals**

· **PAC-1:**

123-86-4	n-butyl acetate	5 ppm
1330-20-7	xylene	130 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
1309-64-4	antimony trioxide	1.8 mg/m ³
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
80-62-6	methyl methacrylate	17 ppm
100-41-4	ethylbenzene	33 ppm
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m ³
79-41-4	methacrylic acid	6.7 ppm
78-83-1	butanol	150 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m ³
57-55-6	Propylene glycol	30 mg/m ³

· **PAC-2:**

123-86-4	n-butyl acetate	200 ppm
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		(Contd. of page 4)
1330-20-7	xylene	920* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
1309-64-4	antimony trioxide	16 mg/m ³
14808-60-7	Quartz (SiO ₂)	33 mg/m ³
80-62-6	methyl methacrylate	120 ppm
100-41-4	ethylbenzene	1100* ppm
868-77-9	2-hydroxyethyl methacrylate	21 mg/m ³
79-41-4	methacrylic acid	61 ppm
78-83-1	butanol	1,300 ppm
77-58-7	dibutyltin dilaurate	8 mg/m ³
57-55-6	Propylene glycol	1,300 mg/m ³

· PAC-3:

123-86-4	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
1309-64-4	antimony trioxide	96 mg/m ³
14808-60-7	Quartz (SiO ₂)	200 mg/m ³
80-62-6	methyl methacrylate	570 ppm
100-41-4	ethylbenzene	1800* ppm
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m ³
79-41-4	methacrylic acid	220 ppm
78-83-1	butanol	8000* ppm
77-58-7	dibutyltin dilaurate	48 mg/m ³
57-55-6	Propylene glycol	7,900 mg/m ³

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.

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- **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 item 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/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm
1330-20-7 xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
1309-64-4 antimony trioxide	
PEL	Long-term value: 0.5 mg/m ³
REL	Long-term value: 0.5 mg/m ³ as Sb
TLV	Long-term value: 0.5* mg/m ³ *as Sb; withdrawn from NIC, (L)

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14808-60-7 Quartz (SiO2)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

1344-37-2 Lead sulfochromate yellow

PEL	Long-term value: 0.005* mg/m ³ Ceiling limit value: 0.1** mg/m ³ *as Cr(VI) **as CrO ₃ ; see 29 CFR 1910.1026
REL	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C
TLV	Short-term value: 0.0005 mg/m ³ Long-term value: 0.0002 mg/m ³ as Cr; inhalable, DSEN, RSEN

80-62-6 methyl methacrylate

PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm DSEN

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

Ingredients with biological limit values:

1330-20-7 xylene

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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1344-37-2 Lead sulfochromate yellow

BEI	25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)
	10 µg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

100-41-4 ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

- **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.
- **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

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· **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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Yellow
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 (solid, gaseous):** Not applicable.

· **Ignition temperature:** 370 °C (698 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:	1.2 Vol %
Upper:	7.5 Vol %

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· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
· Density at 20 °C (68 °F):	1.321 g/cm ³ (11.02375 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/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	31.8 %
Coating VOC content:	31.75 %
	419.4 g/l / 3.50 lb/gal
Material VOC content:	419.4 g/l / 3.50 lb/gal
Solids content:	67.6 %
· 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:		
1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (rat)

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Dermal	LD50	2,000 mg/kg (rabbit)
1309-64-4 antimony trioxide		
Oral	LD50	>20,000 mg/kg (rat)
1344-37-2 Lead sulfochromate yellow		
Oral	LD50	>10,000 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 (International Agency for Research on Cancer)		
1330-20-7	xylene	3
1309-64-4	antimony trioxide	2B
14808-60-7	Quartz (SiO ₂)	1
1344-37-2	Lead sulfochromate yellow	1
80-62-6	methyl methacrylate	3
100-41-4	ethylbenzene	2B

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
1344-37-2	Lead sulfochromate yellow	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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

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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

<ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA 	<p style="text-align: right;">UN1263</p>
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG, IATA 	<p style="text-align: right;">Paint 1263 PAINT PAINT</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	<div style="text-align: right;">  </div>
<ul style="list-style-type: none"> · Class · Label 	<p style="text-align: right;">3 Flammable liquids 3</p>
<ul style="list-style-type: none"> · ADR, IMDG, IATA 	<div style="text-align: right;">  </div>
<ul style="list-style-type: none"> · Class 	<p style="text-align: right;">3 Flammable liquids</p>

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· Label	3
· Packing group · DOT, ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids 30 F-E, <u>S-E</u> 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: 1000 ml
· 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

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):	
1330-20-7	xylene
1309-64-4	antimony trioxide
1344-37-2	Lead sulfochromate yellow

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80-62-6	methyl methacrylate
100-41-4	ethylbenzene

· TSCA (Toxic Substances Control Act):

123-86-4	n-butyl acetate	ACTIVE
1330-20-7	xylene	ACTIVE
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
1309-64-4	antimony trioxide	ACTIVE
14808-60-7	Quartz (SiO ₂)	ACTIVE
1344-37-2	Lead sulfochromate yellow	ACTIVE
80-62-6	methyl methacrylate	ACTIVE
26761-45-5	2,3-epoxypropyl neodecanoate	ACTIVE
100-41-4	ethylbenzene	ACTIVE
868-77-9	2-hydroxyethyl methacrylate	ACTIVE
79-41-4	methacrylic acid	ACTIVE
136-53-8	ZINC 2-ETHYLEXANOATE	ACTIVE
78-83-1	butanol	ACTIVE
64742-88-7	Solvent naphtha (petroleum), medium aliph.	ACTIVE
77-58-7	dibutyltin dilaurate	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· Hazardous Air Pollutants

1330-20-7	xylene
1309-64-4	antimony trioxide
1344-37-2	Lead sulfochromate yellow
80-62-6	methyl methacrylate
100-41-4	ethylbenzene

· Proposition 65**· Chemicals known to cause cancer:**

1309-64-4	antimony trioxide
14808-60-7	Quartz (SiO ₂)
1344-37-2	Lead sulfochromate yellow
100-41-4	ethylbenzene

· Chemicals known to cause reproductive toxicity for females:

1344-37-2	Lead sulfochromate yellow
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· Chemicals known to cause reproductive toxicity for males:

1344-37-2	Lead sulfochromate yellow
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· **Chemicals known to cause developmental toxicity:**

1344-37-2	Lead sulfochromate yellow
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I
1344-37-2	Lead sulfochromate yellow	A(inh), D(oral), K/L(inh), CBD(oral)
80-62-6	methyl methacrylate	E, NL
100-41-4	ethylbenzene	D

· **TLV (Threshold Limit Value established by ACGIH)**

1330-20-7	xylene	A4
1309-64-4	antimony trioxide	A2
14808-60-7	Quartz (SiO ₂)	A2
1344-37-2	Lead sulfochromate yellow	A1
80-62-6	methyl methacrylate	A4
100-41-4	ethylbenzene	A3
77-58-7	dibutyltin dilaurate	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO ₂)
1344-37-2	Lead sulfochromate yellow

· **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:**

Quartz (SiO₂)
Lead sulfochromate yellow
antimony trioxide
methyl methacrylate
2,3-epoxypropyl neodecanoate

· **Hazard statements**

Flammable liquid and vapor.
May cause an allergic skin reaction.

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May cause cancer.

May damage fertility or the unborn child.

• **Precautionary statements**

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

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

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 exposed or concerned: Get medical advice/attention.

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 for extinction: CO₂, powder or water spray.

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 preparation / last revision** 05/06/2019 / -

• **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)

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Safety Data Sheet acc. to OSHA HCS

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IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 3: Flammable liquids – Category 3
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1A: Carcinogenicity – Category 1A
Repr. 1A: Reproductive toxicity – Category 1A

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