



1 Identification

- **Product identifier** GENROCK 2K
- **Trade name:** 640 MOLYBDATE RED
- **Article number:** 640
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
General Paint Co. SAL
P.O. Box 7623
Beirut
LEBANON
info@generalpaint.biz
- **Information department:** Product safety department
- **Emergency telephone number:** 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.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**

- **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

Quartz (SiO2)

ethylbenzene

- **Hazard statements**

Flammable liquid and vapor.

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*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***Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Use explosion-proof electrical/ventilating/lighting/equipment.**Do not breathe dust/fume/gas/mist/vapors/spray.**Wear protective gloves / eye protection / face protection.**Ground/bond container and receiving equipment.**Keep container tightly closed.**Use only non-sparking tools.**Take precautionary measures against static discharge.**Wash thoroughly after handling.**Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**Specific treatment (see on this label).**IF exposed or concerned: Get medical advice/attention.**If skin irritation occurs: Get medical advice/attention.**Get medical advice/attention if you feel unwell.**In case of fire: Use for extinction: CO2, powder or water spray.**Take off contaminated clothing and wash it before reuse.**Store locked up.**Store in a well-ventilated place. Keep cool.**Dispose of contents/container in accordance with local/regional/national/international regulations.***Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *1

Fire = 3

Reactivity = 0

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:**

12656-85-8	Lead chromate molybdate sulfate red	10-25%
1330-20-7	xylene	10-25%
123-86-4	n-butyl acetate	10-25%

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64742-95-6	Solvent naphtha (petroleum), light arom.	2.5-10%
108-65-6	2-methoxy-1-methylethyl acetate	½ 2.5%
100-41-4	ethylbenzene	½ 2.5%
14808-60-7	Quartz (SiO ₂)	½ 2.5%
1309-64-4	antimony trioxide	½ 2.5%
872-50-4	N-methyl-2-pyrrolidone	½ 2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
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.*
- **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, sand, extinguishing powder. Do not use water.*
- **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 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.*
- **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.
Do not flush with water or aqueous cleansing agents*
- **Reference to other sections**
*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.*

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See Section 13 for disposal information.

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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 from heat.
 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.
 Protect from heat and direct sunlight.*
- **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:

12656-85-8 Lead chromate molybdate sulfate red

PEL	Long-term value: 0.005* mg/m ³ Ceiling limit value: 0.1** mg/m ³ <i>*as Cr(VI) **as CrO₃; see 29 CFR 1910.1026</i>
REL	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C
TLV	Long-term value: 0.01 mg/m ³ as Cr

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

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m ³ , 150 ppm
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REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: (950) NIC-712 mg/m ³ , (200) NIC-150 ppm Long-term value: (713) NIC-238 mg/m ³ , (150) NIC-50 ppm

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

WEEL Long-term value: 50 ppm

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

14808-60-7 Quartz (SiO₂)

PEL	see Quartz listing
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

872-50-4 N-methyl-2-pyrrolidoneWEEL Long-term value: 10 ppm
Skin**Ingredients with biological limit values:****12656-85-8 Lead chromate molybdate sulfate red**

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)

1330-20-7 xylene

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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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)

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

BEI 100 mg/L
Medium: urine
Time: end of shift
Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

- **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.
- **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*

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· Odour threshold:	<i>Not determined.</i>
· pH-value:	<i>Not determined.</i>
· Change in condition	
Melting point/Melting range:	<i>Undetermined.</i>
Boiling point/Boiling range:	<i>127 °C (261 °F)</i>
· Flash point:	<i>25 °C (77 °F)</i>
· Flammability (solid, gaseous):	<i>Not applicable.</i>
· Ignition temperature:	<i>370 °C (698 °F)</i>
· Decomposition temperature:	<i>Not determined.</i>
· Auto igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</i>
· Explosion limits:	
Lower:	<i>1.1 Vol %</i>
Upper:	<i>7.5 Vol %</i>
· Vapor pressure at 20 °C (68 °F):	<i>10.7 hPa (8 mm Hg)</i>
· Density at 20 °C (68 °F):	<i>1.33 g/cm³ (11.099 lbs/gal)</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with	
Water:	<i>Not miscible or difficult to mix.</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
· Solvent content:	
Organic solvents:	<i>35.2 %</i>
Coating VOC content:	<i>35.2 %</i>
	<i>468.3 g/l / 3.91 lb/gl</i>
Material VOC content:	<i>468.3 g/l / 3.91 lb/gl</i>
Solids content:	<i>64.7 %</i>
· Other information	<i>No further relevant information available.</i>

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	>5000 mg/kg (rat)
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1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
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Dermal	LD50	2000 mg/kg (rabbit)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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1309-64-4 antimony trioxide

Oral	LD50	>20000 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** *Irritant to skin and mucous membranes.*

· **on the eye:** *No irritating effect.*

· **Sensitization:** *No sensitizing effects known.*

· **Additional toxicological information:**

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

Irritant

Carcinogenic.

· **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

· **NTP (National Toxicology Program)**

12656-85-8	Lead chromate molybdate sulfate red	K
14808-60-7	Quartz (SiO ₂)	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.*

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- **Behavior in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Ecotoxicological effects:**
- **Remark:** *Toxic for fish*
- **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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- **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, ADR, IMDG, IATA | UN1263 |
| · UN proper shipping name | |
| · DOT | Paint |
| · ADR | 1263 Paint, ENVIRONMENTALLY HAZARDOUS |
| · IMDG, IATA | PAINT |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · ADR | |
|   | |
| · Class | 3 Flammable liquids |

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· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F-E,S-E
· 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)	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":	UN1263, Paint, ENVIRONMENTALLY HAZARDOUS, 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):

12656-85-8	Lead chromate molybdate sulfate red
1330-20-7	xylene
100-41-4	ethylbenzene
1309-64-4	antimony trioxide

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872-50-4	<i>N</i> -methyl-2-pyrrolidone
80-62-6	methyl methacrylate

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

12656-85-8	Lead chromate molybdate sulfate red
1330-20-7	xylene
123-86-4	<i>n</i> -butyl acetate
64742-95-6	Solvent naphtha (petroleum), light arom.
108-65-6	2-methoxy-1-methylethyl acetate
100-41-4	ethylbenzene
14808-60-7	Quartz (SiO ₂)
1309-64-4	antimony trioxide
872-50-4	<i>N</i> -methyl-2-pyrrolidone
80-62-6	methyl methacrylate
78-83-1	butanol
136-53-8	ZINC 2-ETHYLEXANOATE
97-88-1	<i>n</i> -butyl methacrylate
64742-88-7	Solvent naphtha (petroleum), medium aliph.
7447-41-8	lithium chloride

· **Proposition 65**

· **Chemicals known to cause cancer:**

12656-85-8	Lead chromate molybdate sulfate red
100-41-4	ethylbenzene
14808-60-7	Quartz (SiO ₂)
1309-64-4	antimony trioxide

· **Chemicals known to cause reproductive toxicity for females:**

12656-85-8	Lead chromate molybdate sulfate red
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· **Chemicals known to cause reproductive toxicity for males:**

12656-85-8	Lead chromate molybdate sulfate red
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· **Chemicals known to cause developmental toxicity:**

12656-85-8	Lead chromate molybdate sulfate red
872-50-4	<i>N</i> -methyl-2-pyrrolidone

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

12656-85-8	Lead chromate molybdate sulfate red	A(inh), D(oral), K/L(inh), CBD(oral)
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
80-62-6	methyl methacrylate	E, NL

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

12656-85-8	Lead chromate molybdate sulfate red	A1
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
14808-60-7	Quartz (SiO ₂)	A2
1309-64-4	antimony trioxide	A2

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80-62-6	<i>methyl methacrylate</i>	A4
77-58-7	<i>dibutyltin dilaurate</i>	A4

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

12656-85-8	<i>Lead chromate molybdate sulfate red</i>
14808-60-7	<i>Quartz (SiO₂)</i>

· **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
Quartz (SiO₂)
ethylbenzene*

· **Hazard statements**

*Flammable liquid and vapor.
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**

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves / eye protection / face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment (see on this label).
IF exposed or concerned: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
In case of fire: Use for extinction: CO₂, powder or water spray.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **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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· **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:** Ms. Topaljikian

· **Date of preparation / last revision** 10/14/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Carc. 1A: Carcinogenicity, Hazard Category 1A

Repr. 1A: Reproductive toxicity, Hazard Category 1A

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2