



## Safety Data Sheet acc. to OSHA HCS

Printing date 08/06/2018

Reviewed on 12/05/2017

### 1 Identification

- **Product identifier**
- **Trade name:** 100K0099 ACRYLIC ENAMEL BLACK
- **Article number:** 100K0099
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Lusid Technologies  
5195 West 4700 South  
KEARNS, UT 84118  
USA  
www.lusid.biz
- **Information department:** Product safety department
- **Emergency telephone number:**  
24 Hrs Emergency Contact:  
INFOTRAC  
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

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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).

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## Hazard pictograms



GHS02 GHS07 GHS08

## Signal word Danger

## Hazard-determining components of labeling:

Stoddard solvent  
Naphtha (petroleum), hydrotreated light  
Carbon black  
ethylbenzene  
2-butanone oxime

## Hazard statements

Flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause genetic defects.  
May cause cancer.  
Causes damage to the central nervous system through prolonged or repeated exposure.  
May be fatal if swallowed and enters airways.

## 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.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Immediately call a poison center/doctor.  
Specific treatment (see on this label).  
Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If exposed or concerned: Get medical advice/attention.  
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.  
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)



Health = 1  
Fire = 3  
Reactivity = 0

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## · HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = *1
FIRE	3	Fire = 3
REACTIVITY	0	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:

1330-20-7	xylene	25-50%
64742-49-0	Naphtha (petroleum), hydrotreated light	2.5-10%
8052-41-3	Stoddard solvent	2.5-10%
763-69-9	ethyl 3-ethoxypropionate	2.5-10%
1333-86-4	Carbon black	≤2.5%
96-29-7	2-butanone oxime	≤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:**  
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:**  
CO<sub>2</sub>, 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 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:**

1330-20-7	xylene	130 ppm
8052-41-3	Stoddard solvent	300 mg/m <sup>3</sup>
763-69-9	ethyl 3-ethoxypropionate	1.6 ppm
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
96-29-7	2-butanone oxime	30 ppm
100-41-4	ethylbenzene	33 ppm
122-99-6	2-Phenoxyethanol	1.5 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
78-83-1	butanol	150 ppm
57-55-6	Propylene glycol	30 mg/m <sup>3</sup>
149-57-5	2-ethylhexanoic acid	15 mg/m <sup>3</sup>

**PAC-2:**

1330-20-7	xylene	920* ppm
8052-41-3	Stoddard solvent	1,800 mg/m <sup>3</sup>
763-69-9	ethyl 3-ethoxypropionate	18 ppm
1333-86-4	Carbon black	99 mg/m <sup>3</sup>
96-29-7	2-butanone oxime	56 ppm
100-41-4	ethylbenzene	1100* ppm
122-99-6	2-Phenoxyethanol	16 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
78-83-1	butanol	1,300 ppm
57-55-6	Propylene glycol	1,300 mg/m <sup>3</sup>
149-57-5	2-ethylhexanoic acid	99 mg/m <sup>3</sup>

**PAC-3:**

1330-20-7	xylene	2500* ppm
8052-41-3	Stoddard solvent	29500** mg/m <sup>3</sup>

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763-69-9	ethyl 3-ethoxypropionate	110 ppm
1333-86-4	Carbon black	590 mg/m <sup>3</sup>
96-29-7	2-butanone oxime	250 ppm
100-41-4	ethylbenzene	1800* ppm
122-99-6	2-Phenoxyethanol	97 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
78-83-1	butanol	8000* ppm
57-55-6	Propylene glycol	7,900 mg/m <sup>3</sup>
149-57-5	2-ethylhexanoic acid	590 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **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.
- **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.

### 1330-20-7 xylene

PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI

### 8052-41-3 Stoddard solvent

PEL	Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 350 mg/m <sup>3</sup> Ceiling limit value: 1800* mg/m <sup>3</sup> *15-min
TLV	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm

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**1333-86-4 Carbon black**

PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction

**96-29-7 2-butanone oxime**

WEEL	Long-term value: 10 ppm
DSEN	

**Ingredients with biological limit values:****1330-20-7 xylene**

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

· **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.

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## · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:

Liquid

Color:

Black

## · Odor:

Characteristic

## · Odor threshold:

Not determined.

## · pH-value:

Not determined (pH N/A in solvent coatings)

## · Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

137 °C (278.6 °F)

## · Flash point:

30 °C (86 °F)

## · Flammability (solid, gaseous):

Not applicable.

## · Ignition temperature:

230 °C (446 °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:

1.1 Vol %

Upper:

7 Vol %

## · Vapor pressure at 20 °C (68 °F):

6.7 hPa (5 mm Hg)

## · Density at 20 °C (68 °F):

0.97 g/cm<sup>3</sup> (8.0947 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:

52.1 %

VOC content:

57.94 %

564.0 g/l / 4.71 lb/gal

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- Solids content:** 41.2 %
- 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.
- 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)
Dermal	LD50	2,000 mg/kg (rabbit)

- Primary irritant effect:**
- on the skin:** Irritant to skin and mucous membranes.
- 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

The product can cause inheritable damage.

- Carcinogenic categories**

- IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
1333-86-4	Carbon black	2B
136-52-7	cobalt(II) 2-ethylhexanoate	2B
100-41-4	ethylbenzene	2B
14808-60-7	Quartz (SiO <sub>2</sub> )	1

- NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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- OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 3 (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 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

- |  |   |
|--|---|
| · <b>UN-Number</b>                         |   |
| · <b>DOT, IMDG, IATA</b>                   | UN1263  |
| · <b>UN proper shipping name</b>           |   |
| · <b>DOT</b>                               | Paint   |
| · <b>IMDG, IATA</b>                        | PAINT   |
| · <b>Transport hazard class(es)</b>        |   |
| · <b>DOT</b>                               |   |
|  |  |
| · <b>Class</b>                             | 3 Flammable liquids   |
| · <b>Label</b>                             | 3   |
| <hr style="border-top: 1px dashed #000;"/> |   |
| · <b>IMDG, IATA</b>                        |   |
|  |  |
| · <b>Class</b>                             | 3 Flammable liquids   |

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· <b>Label</b>	3
· <b>Packing group</b> · <b>DOT, IMDG, IATA</b>	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Flammable liquids 30 F-E, S-E A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b> · <b>DOT</b> · <b>Quantity limitations</b>	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	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
136-52-7	cobalt(II) 2-ethylhexanoate
100-41-4	ethylbenzene
122-99-6	2-Phenoxyethanol
112-34-5	2-(2-butoxyethoxy)ethanol

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

1330-20-7	xylene
8052-41-3	Stoddard solvent
763-69-9	ethyl 3-ethoxypropionate
1333-86-4	Carbon black
96-29-7	2-butanone oxime
136-52-7	cobalt(II) 2-ethylhexanoate
100-41-4	ethylbenzene
122-99-6	2-Phenoxyethanol
112-34-5	2-(2-butoxyethoxy)ethanol

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14808-60-7	Quartz (SiO <sub>2</sub> )
78-83-1	butanol
57-55-6	Propylene glycol
149-57-5	2-ethylhexanoic acid

· **TSCA new (21st Century Act) (Substances not listed)**

64742-49-0	Naphtha (petroleum), hydrotreated light
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· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4	Carbon black
100-41-4	ethylbenzene
14808-60-7	Quartz (SiO <sub>2</sub> )

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

None of the ingredients is listed.	
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.	
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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.	
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I
100-41-4	ethylbenzene	D

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

1330-20-7	xylene	A4
1333-86-4	Carbon black	A4
100-41-4	ethylbenzene	A3
14808-60-7	Quartz (SiO <sub>2</sub> )	A2

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

1333-86-4	Carbon black
14808-60-7	Quartz (SiO <sub>2</sub> )

· **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:**

Stoddard solvent  
Naphtha (petroleum), hydrotreated light  
Carbon black  
ethylbenzene  
2-butanone oxime

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### · Hazard statements

Flammable liquid and vapor.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 May cause genetic defects.  
 May cause cancer.  
 Causes damage to the central nervous system through prolonged or repeated exposure.  
 May be fatal if swallowed and enters airways.

### · 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.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: Immediately call a poison center/doctor.  
 Specific treatment (see on this label).  
 Do NOT induce vomiting.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If exposed or concerned: Get medical advice/attention.  
 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.  
 Wash contaminated clothing before reuse.  
 In case of fire: Use for extinction: CO<sub>2</sub>, 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: Environment protection department.

### · Contact: Product Safety Dept.

### · Date of preparation / last revision 08/06/2018 / 2

### · 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)

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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 Irrit. 2: Skin corrosion/irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 1B: Germ cell mutagenicity – Category 1B  
Carc. 1B: Carcinogenicity – Category 1B  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
Asp. Tox. 1: Aspiration hazard – Category 1

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

USA