

## Safety Data Sheet according to GHS

Printing date 30.12.2022

Revision: 30.12.2022

### 1 Identification

- **Product identifier**
- **Trade name: EPOXY FC COLORS**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Treasure Island Industrial Corp.  
No.2, 3rd Ave. S. Osmena Blvd.  
North Reclamation Area  
Cebu City 6000  
PHILIPPINES  
doo@treasureisland.com.ph
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:** During normal opening times: +63 32 232 05 13

### 2 Hazard identification

- **Classification of the substance or mixture**



flame

 Flam. Liq. 3      H226 Flammable liquid and vapour.
 

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health hazard

Muta. 1B      H340 May cause genetic defects.

Carc. 1B      H350 May cause cancer.

 Repr. 2      H361 Suspected of damaging fertility or the unborn child.
 

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Skin Irrit. 2      H315 Causes skin irritation.

 Eye Irritation 2A      H319 Causes serious eye irritation.
 

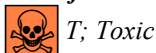
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Acute Tox. 5      H313 May be harmful in contact with skin.

 Acute Tox. 5      H333 May be harmful if inhaled.
 

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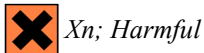
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

 R45-46: May cause cancer. May cause heritable genetic damage.
 

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Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.

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**Xi; Irritant***R38: Irritating to skin.***Information concerning particular hazards for human and environment:***The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.***Classification system:***The classification is according to the latest editions of the EU-lists, and extended by company and literature data.***Label elements****Labelling according to EU guidelines:***The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.***Code letter and hazard designation of product:****T Toxic****Hazard-determining components of labelling:***Solvent naphtha (petroleum), light arom.  
Dimethylbenzene***Risk phrases:***45 May cause cancer.  
46 May cause heritable genetic damage.  
20/21 Also harmful by inhalation and in contact with skin.  
38 Irritating to skin.***Safety phrases:***53 Avoid exposure - obtain special instructions before use.  
1/2 Keep locked up and out of the reach of children.  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).***Other hazards****Results of PBT and vPvB assessment*****PBT:** Not applicable.  
**vPvB:** Not applicable.*

### 3 Composition / information on ingredients

**Chemical characterisation: Mixtures*****Description:** Mixture of substances listed below with nonhazardous additions.*

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**· Dangerous components:**

CAS: 25036-25-3	Polymer of epoxy resin and bisphenol A Eye Irritation 2B, H320	
CAS: 1330-20-7	Dimethylbenzene  Xn R20/21  Xi R38 R10  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 Acute Tox. 5, H303	
CAS: 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]  Carc. 2, H351 Acute Tox. 5, H333	
CAS: 1317-65-3	Calcium Carbonate  Acute Tox. 4, H302 Acute Tox. 5, H333; Skin Corr. 3, H316; Eye Irritation 2B, H320	
CAS: 111-76-2	Normal Butyl Cellusolve  Xn R20/21/22  Xi R36/38  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 107-98-2	1-methoxy-2-propanol R10-67  Flam. Liq. 3, H226  Acute Tox. 3, H331  STOT SE 3, H336	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.  T Carc. Cat. 2, Muta. Cat. 2 R45-46  Xn R65  Flam. Liq. 3, H226  Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304  Acute Tox. 4, H332 Acute Tox. 5, H313	
CAS: 556-67-2	octamethylcyclotetrasiloxane  Xn R62 R53 Repr. Cat. 3  Flam. Liq. 3, H226  Repr. 2, H361  Aquatic Chronic 1, H410	

**· SVHC**

CAS: 556-67-2	octamethylcyclotetrasiloxane	
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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:** Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **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.

· **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.

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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 fire - and explosion protection:**  
 Keep respiratory protective device available.  
 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 container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls / personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

#### · **Ingredients with limit values that require monitoring at the workplace:**

##### **CAS: 1330-20-7 Dimethylbenzene**

PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4

##### **CAS: 111-76-2 Normal Butyl Cellusolve**

PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 20 ppm BEI, A3

##### **CAS: 107-98-2 1-methoxy-2-propanol**

REL (USA)	Short-term value: 540 mg/m <sup>3</sup> , 150 ppm Long-term value: 360 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 100 ppm Long-term value: 50 ppm A4

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**CAS: 556-67-2 octamethylcyclotetrasiloxane**

<i>WEEL (USA)</i>	<i>Long-term value: 10* ppm</i> <i>*OARS WEEL</i>
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**· Ingredients with biological limit values:**
**CAS: 1330-20-7 Dimethylbenzene**

<i>BEI (USA)</i>	<i>1.5 g/g creatinine</i> <i>Medium: urine</i> <i>Time: end of shift</i> <i>Parameter: Methylhippuric acids</i>
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**CAS: 111-76-2 Normal Butyl Cellusolve**

<i>BEI (USA)</i>	<i>200 mg/g creatinine</i> <i>Medium: urine</i> <i>Time: end of shift</i> <i>Parameter: Butoxyacetic acid (BAA) (with hydrolysis)</i>
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**· Additional information:** *The lists valid during the making 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.*

**· Respiratory protection:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

**· 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:**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

 · **pH-value:** Not determined.

 · **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	137-143 °C

 · **Flash point:** Not applicable.

 · **Flammability (solid, gas):** Not applicable.

 · **Ignition temperature:** 240 °C

 · **Decomposition temperature:** Not determined.

 · **Auto-ignition temperature:** Product is not selfigniting.

 · **Explosive properties:** Not determined.

 · **Explosion limits:**

<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	7 Vol %

 · **Vapour pressure at 20 °C:** 6.7 hPa

<b>Density at 20 °C:</b>	1.41 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

 · **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

 · **Partition coefficient: n-octanol/water:** Not determined.

 · **Viscosity:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

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<b>· Solvent content:</b>	
<b>Organic solvents:</b>	25.8 %
<b>Water:</b>	0 %
<b>VOC (EC)</b>	25.75 %
<b>Solids content:</b>	
	74.6 %
<b>· Other information</b>	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 relevant for classification:**
**CAS: 1330-20-7 Dimethylbenzene**

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

**CAS: 13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]**

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

**CAS: 111-76-2 Normal Butyl Cellusolve**

Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

**CAS: 107-98-2 1-methoxy-2-propanol**

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

**CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6,800 mg/kg (rat)
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Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
 The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
 Harmful  
 Irritant  
 Carcinogenic.  
 The product can cause inheritable damage.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour 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 2 (German Regulation) (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 together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UNI263

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<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p style="text-align: right;">1263 PAINT PAINT</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p style="text-align: right;">3 Flammable liquids. 3</p>
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">I</p>
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	<p style="text-align: right;">No</p>
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> </ul>	<p style="text-align: right;">Warning: Flammable liquids. 30 F-E,<u>S-E</u></p>
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	<p style="text-align: right;">Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p style="text-align: right;">500 ml Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml</p>
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> </ul>	<p style="text-align: right;">1</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p style="text-align: right;">500 ml Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p style="text-align: right;">UN 1263 PAINT, 3, I</p>

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Philippines Inventory of Chemicals and Chemical Substances

CAS: 25036-25-3	Polymer of epoxy resin and bisphenol A
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CAS: 1330-20-7	Dimethylbenzene
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CAS: 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]
CAS: 1317-65-3	Calcium Carbonate
CAS: 111-76-2	Normal Butyl Cellulose
CAS: 512-56-1	trimethyl phosphate
CAS: 1318-93-0	Montmorillonite
CAS: 112926-00-8	Precipitated silica (Silica-Amorphous)
CAS: 21645-51-2	aluminium hydroxide
CAS: 108-65-6	2-methoxy-1-methylethyl acetate
CAS: 107-98-2	1-methoxy-2-propanol
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.
CAS: 7732-18-5	water, distilled, conductivity or of similar purity
CAS: 556-67-2	octamethylcyclotetrasiloxane
CAS: 123-86-4	Butyl Ethanoate
CAS: 100-41-4	ethylbenzene
CAS: 7664-38-2	phosphoric acid
	Carbon black
CAS: 78-83-1	butyl alcohol (except tert-butyl alcohol)
CAS: 14808-60-7	Silicon Dioxide
CAS: 1589-47-5	2-methoxypropanol

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category P5c** FLAMMABLE LIQUIDS

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

- **National regulations:**

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exemptions can be made by the authorities in certain cases.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 556-67-2	octamethylcyclotetrasiloxane
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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.

- **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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- H303 *May be harmful if swallowed.*  
H304 *May be fatal if swallowed and enters airways.*  
H312 *Harmful in contact with skin.*  
H313 *May be harmful in contact with skin.*  
H315 *Causes skin irritation.*  
H316 *Causes mild skin irritation.*  
H318 *Causes serious eye damage.*  
H320 *Causes eye irritation.*  
H331 *Toxic if inhaled.*  
H332 *Harmful if inhaled.*  
H333 *May be harmful if inhaled.*  
H336 *May cause drowsiness or dizziness.*  
H340 *May cause genetic defects.*  
H350 *May cause cancer.*  
H351 *Suspected of causing cancer.*  
H361 *Suspected of damaging fertility or the unborn child.*  
H410 *Very toxic to aquatic life with long lasting effects.*
- R10 *Flammable.*  
R20/21 *Harmful by inhalation and in contact with skin.*  
R20/21/22 *Harmful by inhalation, in contact with skin and if swallowed.*  
R36/38 *Irritating to eyes and skin.*  
R38 *Irritating to skin.*  
R45 *May cause cancer.*  
R46 *May cause heritable genetic damage.*  
R53 *May cause long-term adverse effects in the aquatic environment.*  
R62 *Possible risk of impaired fertility.*  
R65 *Harmful: may cause lung damage if swallowed.*  
R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing SDS:** Product safety department

· **Contact:** Mr. Ong

· **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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 5: Acute toxicity – Category 5

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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*Skin Corr. 3: Skin corrosion/irritation – Category 3*  
*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*  
*Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A*  
*Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B*  
*Muta. 1B: Germ cell mutagenicity – Category 1B*  
*Carc. 1B: Carcinogenicity – Category 1B*  
*Carc. 2: Carcinogenicity – Category 2*  
*Repr. 2: Reproductive toxicity – Category 2*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*  
*Asp. Tox. 1: Aspiration hazard – Category 1*  
*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*  
· **\* Data compared to the previous version altered.**

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