

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/08/2019

Reviewed on 01/08/2019

## 1 Identification

- **Product identifier**
- **Trade name: Series 750**
- **Article number: Series 750**
- **Application of the substance / the mixture** Printing inks
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
DECO TEChnology Group Inc.  
PRINTCOLOR SCREEN AG  
TEL (714) 639-3326  
FAX (714) 639-2261
- **Information department:** Product safety department
- **Emergency telephone number:** 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. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye 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).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight > 700 - < 1100)

titanium dioxide

Carbon black

- **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

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Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing cancer.

**Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from flames and 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  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves / eye protection / face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: 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 = 2  
Fire = 2  
Reactivity = 0

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



HEALTH 2 Health = 2  
FIRE 2 Fire = 2  
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:**

CAS: 13463-67-7	titanium dioxide	25-50%
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight > 700 - < 1100)	25-50%
CAS: 112-07-2	2-butoxyethyl acetate	10-25%
CAS: 7727-43-7	barium sulphate, natural	2.5-10%

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CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%
CAS: 1333-86-4	Carbon black	2.5-10%
CAS: 108-94-1	cyclohexanone	2.5-10%
CAS: 123-86-4	n-butyl acetate	1-2.5%

#### 4 First-aid measures

- **Description of first aid measures**
- **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. If symptoms persist, consult a doctor.
- **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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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).  
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:**

CAS: 13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>
CAS: 112-07-2	2-butoxyethyl acetate	15 ppm
CAS: 7727-43-7	barium sulphate, natural	15 mg/m <sup>3</sup>
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 1333-86-4	Carbon black	9 mg/m <sup>3</sup>
CAS: 108-94-1	cyclohexanone	60 ppm
CAS: 123-86-4	n-butyl acetate	5 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m <sup>3</sup>

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CAS: 1344-28-1	aluminium oxide	15 mg/m <sup>3</sup>
CAS: 108-83-8	2,6-dimethylheptan-4-one	75 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	50 ppm

· **PAC-2:**

CAS: 13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
CAS: 112-07-2	2-butoxyethyl acetate	35 ppm
CAS: 7727-43-7	barium sulphate, natural	170 mg/m <sup>3</sup>
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 1333-86-4	Carbon black	99 mg/m <sup>3</sup>
CAS: 108-94-1	cyclohexanone	830 ppm
CAS: 123-86-4	n-butyl acetate	200 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m <sup>3</sup>
CAS: 1344-28-1	aluminium oxide	170 mg/m <sup>3</sup>
CAS: 108-83-8	2,6-dimethylheptan-4-one	330 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	1,000 ppm

· **PAC-3:**

CAS: 13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
CAS: 112-07-2	2-butoxyethyl acetate	210 ppm
CAS: 7727-43-7	barium sulphate, natural	990 mg/m <sup>3</sup>
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 1333-86-4	Carbon black	590 mg/m <sup>3</sup>
CAS: 108-94-1	cyclohexanone	5000* ppm
CAS: 123-86-4	n-butyl acetate	3000* ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m <sup>3</sup>
CAS: 1344-28-1	aluminium oxide	990 mg/m <sup>3</sup>
CAS: 108-83-8	2,6-dimethylheptan-4-one	2000* ppm
CAS: 70657-70-4	2-methoxypropyl acetate	5,000 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **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.

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**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.

<b>CAS: 112-07-2 2-butoxyethyl acetate</b>	
REL	Long-term value: 33 mg/m <sup>3</sup> , 5 ppm
TLV	Long-term value: 130 mg/m <sup>3</sup> , 20 ppm
<b>CAS: 7727-43-7 barium sulphate, natural</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 5* mg/m <sup>3</sup> *inhalable fraction; E
<b>CAS: 108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEEL	Long-term value: 50 ppm
<b>CAS: 1333-86-4 Carbon black</b>	
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
<b>CAS: 108-94-1 cyclohexanone</b>	
PEL	Long-term value: 200 mg/m <sup>3</sup> , 50 ppm
REL	Long-term value: 100 mg/m <sup>3</sup> , 25 ppm Skin
TLV	Long-term value: 50 mg/m <sup>3</sup> , 20 ppm Skin
<b>CAS: 123-86-4 n-butyl acetate</b>	
PEL	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm

**Ingredients with biological limit values:**

**CAS: 108-94-1 cyclohexanone**

BEI	80 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 1.2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)
	8 mg/L Medium: urine Time: end of shift Parameter: Cyclohexanol with hydrolysis (nonspecific, 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.

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Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR

• **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

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

• **General Information**

• **Appearance:**

**Form:** Fluid  
**Color:** According to product specification  
**Odor:** Characteristic  
**Odor threshold:** Not determined.

• **pH-value:** Not determined.

• **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** > 140 °C (>284 °F)

• **Flash point:** 63 °C (145.4 °F) (Abel Pensky)

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** 280 °C (536 °F)

• **Decomposition temperature:** Not determined.

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

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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.7 Vol %
<b>Upper:</b>	8.4 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	0.4 hPa (0.3 mm Hg)
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>VOC content:</b>	22.8 % 513.8 g/l / 4.29 lb/gal
· <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 that are relevant for classification:**

**CAS: 13463-67-7 titanium dioxide**

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

**CAS: 112-07-2 2-butoxyethyl acetate**

Oral	LD50	2,400 mg/kg (rat)
Dermal	LD50	1,580 mg/kg (rabbit)

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

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· **Carcinogenic categories**

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

CAS: 13463-67-7	titanium dioxide	2B
CAS: 1333-86-4	Carbon black	2B
CAS: 108-94-1	cyclohexanone	3
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 1330-20-7	xylene	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **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 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1210

· **UN proper shipping name**

· **DOT** Printing ink  
· **ADR** 1210 PRINTING INK  
· **IMDG, IATA** PRINTING INK

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· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids  
· **Label** 3

· **ADR, IMDG, IATA**



· **Class** 3 Flammable liquids  
· **Label** 3

· **Packing group**

· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 30

· **EMS Number:** F-E,S-D

· **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **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":** UN 1210 PRINTING INK, 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 ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 112-07-2 2-butoxyethyl acetate

CAS: 7727-43-7 barium sulphate, natural

CAS: 1344-28-1 aluminium oxide

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

CAS: 13463-67-7	titanium dioxide
CAS: 112-07-2	2-butoxyethyl acetate
CAS: 7727-43-7	barium sulphate, natural
CAS: 108-65-6	2-methoxy-1-methylethyl acetate
CAS: 1333-86-4	Carbon black
CAS: 108-94-1	cyclohexanone
CAS: 123-86-4	n-butyl acetate
CAS: 7631-86-9	silicon dioxide, chemically prepared
CAS: 1344-28-1	aluminium oxide
CAS: 108-83-8	2,6-dimethylheptan-4-one

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

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight > 700 - < 1100)
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**· Proposition 65**

**· Chemicals known to cause cancer:**

CAS: 13463-67-7	titanium dioxide
CAS: 1333-86-4	Carbon black

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

None of the ingredients is listed.

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

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogeny categories**

**· EPA (Environmental Protection Agency)**

CAS: 7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
CAS: 1330-20-7	xylene	I

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

CAS: 13463-67-7	titanium dioxide	A4
CAS: 112-07-2	2-butoxyethyl acetate	A3
CAS: 1333-86-4	Carbon black	A4
CAS: 108-94-1	cyclohexanone	A3
CAS: 1330-20-7	xylene	A4
CAS: 1344-28-1	aluminium oxide	A4

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

CAS: 13463-67-7	titanium dioxide
CAS: 1333-86-4	Carbon black

**· GHS label elements**

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

**· Hazard pictograms**



GHS02 GHS07 GHS08

**· Signal word Warning**

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· **Hazard-determining components of labeling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight > 700 - < 1100)

titanium dioxide

Carbon black

· **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

· **Precautionary statements**

Obtain special instructions before use.

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

Keep away from flames and 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

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: 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.

· **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:** hse@printcolor.ch

· **Date of preparation / last revision** 01/08/2019 / 2

· **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)

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 Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

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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  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2

US