

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

Printing date 08/05/2022

Reviewed on 08/05/2022

**1 Identification**

- **Product identifier**
- **Trade name: Series 786**
- **Article number: Series 786**
- **Application of the substance / the mixture** Printing inks
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Printcolor AG  
Welschloh 299  
CH-8965 Berikon  
Tel.: 0041 / 56 648 85 85  
E-Mail: info@printcolor.ch
- **Information department:** Product safety department
- **Emergency telephone number:** Tox Center Zürich: 0041 - 44 251 51 51

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.



GHS08 Health hazard

Sensitization - Respiratory 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity 2

H351 Suspected of causing cancer.



GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3

H336 May cause drowsiness or dizziness.

- **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:**

2-ethoxy-1-methylethyl acetate

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Carbon black  
2-methoxy-1-methylethyl acetate  
n-butyl acetate  
4-isocyanatosulphonyltoluene  
2-hydroxyethyl methacrylate

**Hazard statements**

Flammable liquid and vapor.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
Suspected of causing cancer.  
May cause drowsiness or dizziness.

**Precautionary statements**

Use only non-sparking tools.  
Take precautionary measures against static discharge.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
Call a poison center/doctor if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a poison center/doctor.  
Wash contaminated clothing before reuse.  
In case of fire: Use CO2, powder or water spray to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
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 = 0  
Fire = 2  
Reactivity = 0

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



Health = 0  
Fire = 2  
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: 54839-24-6	2-ethoxy-1-methylethyl acetate	≥10-<20%
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	≥10-<20%

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CAS: 123-86-4	n-butyl acetate	2.5-10%
CAS: 4435-53-4	3-methoxybutyl acetate	2.5-10%
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	2.5-10%
CAS: 1333-86-4	Carbon black	1-2.5%
CAS: 112-07-2	2-butoxyethyl acetate	1-2.5%
CAS: 4083-64-1	4-isocyanatosulphonyltoluene	≥0.1-<1%
CAS: 868-77-9	2-hydroxyethyl methacrylate	≥0.1-<0.5%
CAS: 111-76-2	2-butoxyethanol	≥0-<0.5%

#### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources
- **Environmental precautions:** No special measures required.
- **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.
- **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>
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		(Contd. of page 3)
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 123-86-4	n-butyl acetate	5 ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
CAS: 1333-86-4	Carbon black	9 mg/m <sup>3</sup>
CAS: 112-07-2	2-butoxyethyl acetate	15 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m <sup>3</sup>
CAS: 868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m <sup>3</sup>
CAS: 107-98-2	1-methoxy-2-propanol	100 ppm
CAS: 111-76-2	2-butoxyethanol	60 ppm
CAS: 1344-28-1	aluminium oxide	15 mg/m <sup>3</sup>
CAS: 80-62-6	methyl methacrylate	17 ppm
CAS: 78-83-1	butanol	150 ppm
CAS: 100-42-5	styrene	20 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	50 ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
CAS: 102-82-9	tributylamine	0.049 ppm

**· PAC-2:**

CAS: 13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 123-86-4	n-butyl acetate	200 ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
CAS: 1333-86-4	Carbon black	99 mg/m <sup>3</sup>
CAS: 112-07-2	2-butoxyethyl acetate	35 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m <sup>3</sup>
CAS: 868-77-9	2-hydroxyethyl methacrylate	21 mg/m <sup>3</sup>
CAS: 107-98-2	1-methoxy-2-propanol	160 ppm
CAS: 111-76-2	2-butoxyethanol	120 ppm
CAS: 1344-28-1	aluminium oxide	170 mg/m <sup>3</sup>
CAS: 80-62-6	methyl methacrylate	120 ppm
CAS: 78-83-1	butanol	1,300 ppm
CAS: 100-42-5	styrene	130 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	1,000 ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
CAS: 102-82-9	tributylamine	0.54 ppm

**· PAC-3:**

CAS: 13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 123-86-4	n-butyl acetate	3000* ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
CAS: 1333-86-4	Carbon black	590 mg/m <sup>3</sup>
CAS: 112-07-2	2-butoxyethyl acetate	210 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m <sup>3</sup>
CAS: 868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m <sup>3</sup>

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		(Contd. of page 4)
CAS: 107-98-2	1-methoxy-2-propanol	660 ppm
CAS: 111-76-2	2-butoxyethanol	700 ppm
CAS: 1344-28-1	aluminium oxide	990 mg/m <sup>3</sup>
CAS: 80-62-6	methyl methacrylate	570 ppm
CAS: 78-83-1	butanol	8000* ppm
CAS: 100-42-5	styrene	1100* ppm
CAS: 70657-70-4	2-methoxypropyl acetate	5,000 ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
CAS: 102-82-9	tributylamine	3.2 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

<b>CAS: 108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEEL	Long-term value: 50 ppm
<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: 150 ppm Long-term value: 50 ppm
<b>CAS: 34590-94-8 Dipropylene glycol monomethyl ether</b>	
PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin

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TLV	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, A3
<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: 20 ppm A3
<b>CAS: 111-76-2 2-butoxyethanol</b>	
PEL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 20 ppm BEI, A3
<b>Ingredients with biological limit values:</b>	
<b>CAS: 111-76-2 2-butoxyethanol</b>	
BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **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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· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR

· **Eye protection:**



Goggles recommended during refilling.

## 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:**

44 °C (111.2 °F) (Abel Pensky)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

315 °C (599 °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:

1.5 Vol %

Upper:

10.8 Vol %

· **Vapor pressure at 20 °C (68 °F):**

3.4 hPa (2.6 mm Hg)

· **Density at 20 °C (68 °F):**

>1.49-<1.52 g/cm<sup>3</sup> (>12.43-<12.68 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 at 20 °C (68 °F):

4,000-8,000 mPas

Kinematic:

Not determined.

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- **Solvent separation test**
- **VOC content:**
  - ≥22.43-<22.69 %
  - >338-<344.8 g/l / >2.82-<2.88 lb/gal
- **VOC (EC)**
  - ≥22.43-<22.69 %
- **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:**

**CAS: 123-86-4 n-butyl acetate**

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/l (rat)

- **Additional toxicological information:**

- **Carcinogenic categories**

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

CAS: 13463-67-7	titanium dioxide	2B
CAS: 1333-86-4	Carbon black	2B
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 111-76-2	2-butoxyethanol	3
CAS: 80-62-6	methyl methacrylate	3
CAS: 100-42-5	styrene	2A
CAS: 14808-60-7	Quartz (SiO2)	1

- **NTP (National Toxicology Program)**

CAS: 100-42-5	styrene	R
CAS: 14808-60-7	Quartz (SiO2)	K

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

None of the ingredients is listed.

US

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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 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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, IATA</b>                  | UN1210  |
| · <b>ADR, ADN, IMDG</b>             | Void  |
| · <b>UN proper shipping name</b>    |   |
| · <b>DOT</b>                        | Printing ink  |
| · <b>ADR, ADN, IMDG</b>             | Void  |
| · <b>IATA</b>                       | PRINTING INK  |
| · <b>Transport hazard class(es)</b> |   |
| · <b>DOT</b>                        |   |
|                                     |  |
| · <b>Class</b>                      | 3 Flammable liquids   |
| · <b>Label</b>                      | 3   |
| · <b>ADR</b>                        |   |
| · <b>Class</b>                      | Void<br>Kein Gefahrgut <450l gemäss ADR 2.2.3.1.5                                   |


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· <b>ADN/R Class:</b>	Void
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, IATA</b>	III
· <b>ADR, IMDG</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

· **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: 111-76-2	2-butoxyethanol
CAS: 1344-28-1	aluminium oxide
CAS: 80-62-6	methyl methacrylate
CAS: 100-42-5	styrene

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

CAS: 80-62-6	methyl methacrylate
CAS: 100-42-5	styrene

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 1333-86-4	Carbon black
CAS: 100-42-5	styrene

· **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.

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

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

CAS: 111-76-2	2-butoxyethanol	NL
CAS: 80-62-6	methyl methacrylate	E, NL

· **TLV (Threshold Limit Value)**

CAS: 13463-67-7	titanium dioxide	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 112-07-2	2-butoxyethyl acetate	A3
CAS: 111-76-2	2-butoxyethanol	A3
CAS: 1344-28-1	aluminium oxide	A4
CAS: 80-62-6	methyl methacrylate	A4
CAS: 100-42-5	styrene	A4
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	A2

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

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

- 2-ethoxy-1-methylethyl acetate
- Carbon black
- 2-methoxy-1-methylethyl acetate
- n-butyl acetate
- 4-isocyanatosulphonyltoluene
- 2-hydroxyethyl methacrylate

· **Hazard statements**

- Flammable liquid and vapor.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause drowsiness or dizziness.

· **Precautionary statements**

- Use only non-sparking tools.
- Take precautionary measures against static discharge.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Call a poison center/doctor if you feel unwell.

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

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

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** 08/05/2022 / -

· **Abbreviations and acronyms:**

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

DOT: US Department of Transportation

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)

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

Flammable Liquids 3: Flammable liquids – Category 3

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3