

## 1 Identification

- **Product identifier**
  - **Trade name: Mipa 2K-HS-Filler F250 LV 2.1**
  - **Application of the substance / the mixture Filler and surfacer**
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
MIPA SE  
Am Oberen Moos 1  
D-84051 Essenbach  
Tel.: +49(0)8703-922-0  
Fax.: +49(0)8703-922-100  
e-mail: sdb-registratur@mipa-paints.com  
www.mipa-paints.com
  - **Emergency telephone number:**  
011 49(0)700 24112112 (MIP)  
US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)
- Fleetwood Products Inc.  
13 American Way Suite 15  
USA - NJ 08884 Spotswood  
Tel.: +1 7324169590  
e.mail: fleet089@hotmail.com

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

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

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 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:**

4-chloro-alpha, alpha, alpha-trifluorotoluene

acetone

Xylene

n-Butyl acetate

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## Trade name: Mipa 2K-HS-Filler F250 LV 2.1

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· **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 0

Reactivity = 0

· **HMS-ratings (scale 0 - 4)**

HEALTH 2 Health = 2

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:**

67-64-1	acetone	≥10-<15%
123-86-4	n-Butyl acetate	5-<10%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	2.5-<10%
64742-95-6	Hydrocarbons, C9, aromatics	1-<2.5%
1330-20-7	Xylene	1-<2.5%
77-99-6	1,1,1-Trimethylolpropane	≥0.1-<1%
26761-45-5	2,3-epoxypropyl neodecanoate	≥0.1-<1%

\* **4 First-aid measures**· **Description of first aid measures**· **General information:** Immediately remove any clothing soiled by the product.· **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.

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- **After skin contact:**  
Generally the product does not irritate the skin.  
Immediately rinse with water.
- **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:**
- **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**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
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:**

7727-43-7	Barium sulphate, natural	15 mg/m <sup>3</sup>
67-64-1	acetone	200 ppm
123-86-4	n-Butyl acetate	5 ppm
13463-67-7	Titanium dioxide	30 mg/m <sup>3</sup>
1330-20-7	Xylene	130 ppm
112945-52-5	Silicon dioxide	18 mg/m <sup>3</sup>
100-41-4	ethylbenzene	33 ppm
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
1317-61-9	Triiron tetraoxide	21 mg/m <sup>3</sup>
108-83-8	2,6-dimethylheptan-4-one	75 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m <sup>3</sup>
1308-38-9	dichromium trioxide	2.2 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>

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		(Contd. of page 3)
20344-49-4	iron hydroxide oxide	24 mg/m <sup>3</sup>
78-83-1	isobutanol	150 ppm
868-77-9	2-Hydroxyethyl methacrylate	1.9 mg/m <sup>3</sup>
<b>· PAC-2:</b>		
7727-43-7	Barium sulphate, natural	170 mg/m <sup>3</sup>
67-64-1	acetone	3200* ppm
123-86-4	n-Butyl acetate	200 ppm
13463-67-7	Titanium dioxide	330 mg/m <sup>3</sup>
1330-20-7	Xylene	920* ppm
112945-52-5	Silicon dioxide	100 mg/m <sup>3</sup>
100-41-4	ethylbenzene	1100* ppm
1333-86-4	Carbon black	99 mg/m <sup>3</sup>
1317-61-9	Triiron tetraoxide	230 mg/m <sup>3</sup>
108-83-8	2,6-dimethylheptan-4-one	330 ppm
77-58-7	dibutyltin dilaurate	8 mg/m <sup>3</sup>
1308-38-9	dichromium trioxide	24 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
20344-49-4	iron hydroxide oxide	260 mg/m <sup>3</sup>
78-83-1	isobutanol	1,300 ppm
868-77-9	2-Hydroxyethyl methacrylate	21 mg/m <sup>3</sup>
<b>· PAC-3:</b>		
7727-43-7	Barium sulphate, natural	990 mg/m <sup>3</sup>
67-64-1	acetone	5700* ppm
123-86-4	n-Butyl acetate	3000* ppm
13463-67-7	Titanium dioxide	2,000 mg/m <sup>3</sup>
1330-20-7	Xylene	2500* ppm
112945-52-5	Silicon dioxide	630 mg/m <sup>3</sup>
100-41-4	ethylbenzene	1800* ppm
1333-86-4	Carbon black	590 mg/m <sup>3</sup>
1317-61-9	Triiron tetraoxide	1,400 mg/m <sup>3</sup>
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
77-58-7	dibutyltin dilaurate	48 mg/m <sup>3</sup>
1308-38-9	dichromium trioxide	140 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
20344-49-4	iron hydroxide oxide	1,600 mg/m <sup>3</sup>
78-83-1	isobutanol	8000* ppm
868-77-9	2-Hydroxyethyl methacrylate	1,000 mg/m <sup>3</sup>

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

- Keep away from heat and direct sunlight.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.

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- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
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.

### 67-64-1 acetone

PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm Long-term value: 594 mg/m <sup>3</sup> , 250 ppm BEI

### 123-86-4 n-Butyl acetate

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

### 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

- **Ingredients with biological limit values:**

### 67-64-1 acetone

BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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### 1330-20-7 Xylene

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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· **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 eyes.

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:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **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.

· **Breakthrough 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.

· **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:

56 °C (132.8 °F)

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· <b>Flash point:</b>	<3 °C (<37.4 °F) (DIN EN ISO 1523:2002)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	370 °C (698 °F) (DIN 51794)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	2.6 Vol %
Upper:	13 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	233 hPa (174.8 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	1.555 g/cm <sup>3</sup> (12.976 lbs/gal) (DIN EN ISO 2811-1)
· <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>	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	40-60 s (DIN 53211/4)
· <b>Solvent content:</b>	
VOC content:	12.50 % 244 g/l / 2.0 lb/gal
Solids content (weight-%):	69.7 %
· <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:** Carbon monoxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

64742-95-6 Hydrocarbons, C9, aromatics

Oral	LD50	>2,000 mg/kg (rat)
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Dermal LD50 &gt;2,000 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **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

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

14807-96-6	Talc	3
13463-67-7	Titanium dioxide	2B
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	2B
1330-20-7	Xylene	3
100-41-4	ethylbenzene	2B
1333-86-4	Carbon black	2B

· **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.

\* **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.

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USA



**Trade name: Mipa 2K-HS-Filler F250 LV 2.1**

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

**14 Transport information**

· **UN-Number**  
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**  
· **DOT** Paint  
· **ADR** UN1263 PAINT  
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**  
· **DOT**



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

· **ADR**



· **Class** 3 (F1) Flammable liquids  
· **Label** 3

· **IMDG, IATA**



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

· **Packing group**  
· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:**  
· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids  
· **Hazard identification number (Kemler code):** 33  
· **EMS Number:** F-E, S-E  
· **Stowage Category** B

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

· **Transport/Additional information:**

· **ADR**  
· **Limited quantities (LQ)** 5L

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, 3, II

## 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):**

7727-43-7 Barium sulphate, natural

1330-20-7 Xylene

100-41-4 ethylbenzene

1308-38-9 dichromium trioxide

· **Hazardous Air Pollutants**

1330-20-7 Xylene

100-41-4 ethylbenzene

1308-38-9 dichromium trioxide

· **Proposition 65**

· **Chemicals known to cause cancer:**

13463-67-7 Titanium dioxide

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

100-41-4 ethylbenzene

1333-86-4 Carbon black

14808-60-7 Quartz (SiO<sub>2</sub>)

· **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.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

7727-43-7 Barium sulphate, natural D, CBD(inh), NL(oral)

67-64-1 acetone I

1330-20-7 Xylene I

100-41-4 ethylbenzene D

1308-38-9 dichromium trioxide D, CBD

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

14807-96-6 Talc A4 10-25%

67-64-1 acetone A4 ≥10-<15%

13463-67-7 Titanium dioxide A4 2.5-<10%

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1330-20-7	Xylene	A4	1-<2.5%
100-41-4	ethylbenzene	A3	<1%
1333-86-4	Carbon black	A4	<1%
77-58-7	dibutyltin dilaurate	A4	<0.1%
1308-38-9	dichromium trioxide	A4	<0.1%
14808-60-7	Quartz (SiO <sub>2</sub> )	A2	<0.1%

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

13463-67-7	Titanium dioxide
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:**

4-chloro-alpha, alpha, alpha-trifluorotoluene  
acetone  
Xylene  
n-Butyl acetate

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Class	Share in %
NK	25-50

· **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.

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**Trade name: Mipa 2K-HS-Filler F250 LV 2.1**

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- **Contact:**

- **Date of preparation / last revision** 07/19/2021 / 1

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

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

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

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*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. 2: Flammable liquids – Category 2*

*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Repr. 2: Reproductive toxicity – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

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