

Printing date 07/03/2024

Reviewed on 07/03/2024

## 1 Identification

- **Product identifier**
- **Trade name:** STEELKOTE EP ZN HS
- **Article number:** 805
- **Application of the substance / the mixture** Paint
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Baril Coatings BV  
 Zilverenberg 9  
 5234 GL 's-Hertogenbosch  
 Tel +31 (0)73 6419890  
 e-mail info@baril.nl  
 The Netherlands
- **Information department:**  
 Product Safety Department  
 R&D department
- **Emergency telephone number:**  
 National poison emergency number USA  
 1-800-222-1222  
 Use this emergency number for immediate help in case of poisoning.

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.



GHS07

Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 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

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· **Signal word** Warning

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

phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]  
ethylbenzene

Phenol, methylstyrenated

Fatty acids, tall oil,  
compounds with oleylamine

· **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 heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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/protective clothing/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 CO<sub>2</sub>, powder or water spray to extinguish.

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 = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 3

Reactivity = 0

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Resin mixture

- **Dangerous components:**

CAS: 25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	5-<7%
CAS: 1330-20-7	xylene	3-<5%
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	3-<5%
CAS: 68512-30-1	Phenol, methylstyrenated	1-<2.5%
CAS: 71-36-3	butan-1-ol	1-<2.5%
CAS: 100-41-4	ethylbenzene	0.5-<1%
CAS: 85711-55-3	Fatty acids, tall oil, compounds with oleylamine	0.1-0.15%

### 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.
- **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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

### · PAC-1:

CAS: 25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	12 mg/m <sup>3</sup>
CAS: 1330-20-7	xylene	130 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 1314-13-2	zinc oxide	10 mg/m <sup>3</sup>
CAS: 71-36-3	butan-1-ol	60 ppm
CAS: 100-41-4	ethylbenzene	33 ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
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: 98-82-8	Cumene	50 ppm

### · PAC-2:

CAS: 25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	130 mg/m <sup>3</sup>
CAS: 1330-20-7	xylene	920* ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 1314-13-2	zinc oxide	15 mg/m <sup>3</sup>
CAS: 71-36-3	butan-1-ol	800 ppm
CAS: 100-41-4	ethylbenzene	1100* ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
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: 98-82-8	Cumene	300 ppm

### · PAC-3:

CAS: 25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	790 mg/m <sup>3</sup>
CAS: 1330-20-7	xylene	2500* ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm

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CAS: 1314-13-2	zinc oxide	(Contd. of page 4) 2,500 mg/m <sup>3</sup>
CAS: 71-36-3	butan-1-ol	8000** ppm
CAS: 100-41-4	ethylbenzene	1800* ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
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: 98-82-8	Cumene	730 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
No special measures required.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

<b>CAS: 1330-20-7 xylene</b>	
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	Long-term value: 20 ppm BEI, A4
<b>CAS: 108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEEL	Long-term value: 50 ppm
<b>CAS: 71-36-3 butan-1-ol</b>	
PEL	Long-term value: 300 mg/m <sup>3</sup> , 100 ppm
REL	Ceiling limit value: 150 mg/m <sup>3</sup> , 50 ppm Skin

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TLV	Long-term value: 20 ppm
<b>CAS: 100-41-4 ethylbenzene</b>	
PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3

· **Ingredients with biological limit values:**

**CAS: 1330-20-7 xylene**

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

**CAS: 100-41-4 ethylbenzene**

BEI 0.15 g/g creatinine  
 Medium: urine  
 Time: end of shift at end of workweek  
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **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 and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:

Fluid

Color:

According to product specification

## · Odor:

Characteristic

## · Odor threshold:

Not determined.

## · pH-value:

Mixture is non-polar/aprotic.

## · Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Undetermined.

## · Flash point:

30 °C (86 °F)

## · Flammability (solid, gaseous):

Flammable.

## · Ignition temperature:

500 °C (932 °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:

Not determined.

Upper:

Not determined.

## · Vapor pressure:

Not determined.

## · Density at 20 °C (68 °F):

2.632 g/cm<sup>3</sup> (21.96404 lbs/gal)

## · Relative density

Not determined.

## · Vapor density

Not determined.

## · Evaporation rate

Not determined.

## · Solubility in / Miscibility with

Water:

Not miscible or difficult to mix.

## · Partition coefficient (n-octanol/water): Not determined.

## · Viscosity:

Dynamic:

Not determined.

Kinematic at 20 °C (68 °F):

60 s (ISO 6 mm)

## · Solvent content:

Organic solvents:

13.0 %

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**VOC content:** 13.00 %  
342.2 g/l / 2.86 lb/gal

**Solids content:** 87.0 %

· **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:**
- **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

### · **Carcinogenic categories**

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

CAS: 14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	3
CAS: 1330-20-7	xylene	3
CAS: 100-41-4	ethylbenzene	2B
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	1
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	1
CAS: 98-82-8	Cumene	2B

#### · **NTP (National Toxicology Program)**

CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	K
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	K
CAS: 98-82-8	Cumene	R

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

None of the ingredients is listed.

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 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/RID/ADN, ADN, IMDG, IATA** UN1263
  - **UN proper shipping name**
  - **DOT** Paint
  - **ADR/RID/ADN, ADN** 1263 PAINT, ENVIRONMENTALLY HAZARDOUS
  - **IMDG** PAINT, MARINE POLLUTANT
  - **IATA** PAINT
  - **Transport hazard class(es)**
  - **DOT**
- 

- **Class** 3 Flammable liquids
  - **Label** 3

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## · ADR/RID/ADN, IMDG



· Class 3 Flammable liquids  
 · Label 3

## · ADN

· ADN/R Class: 3 Flammable liquids

## · IATA



· Class 3 Flammable liquids  
 · Label 3  
 · Packing group  
 · DOT, ADR/RID/ADN, IMDG, IATA III  
 · Environmental hazards:  
 · Marine pollutant: Yes (DOT)  
 Symbol (fish and tree)  
 · Special marking (ADR/RID/ADN): Symbol (fish and tree)  
 · Special precautions for user Warning: Flammable liquids  
 · Hazard identification number (Kemler code): 30  
 · EMS Number: F-E, S-E  
 · Stowage Category A  
 · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.  
 · Transport/Additional information:  
 · DOT  
 · Remarks: Special marking with the symbol (fish and tree).

## · ADR/RID/ADN

· 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 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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## 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: 7440-66-6 zinc powder -zinc dust (stabilized)

CAS: 1330-20-7 xylene

CAS: 1314-13-2 zinc oxide

CAS: 71-36-3 butan-1-ol

CAS: 100-41-4 ethylbenzene

CAS: 98-82-8 Cumene

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

CAS: 14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

ACTIVE

CAS: 25036-25-3 phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]

ACTIVE

CAS: 1330-20-7 xylene

ACTIVE

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

ACTIVE

CAS: 1314-13-2 zinc oxide

ACTIVE

CAS: 68413-24-1 cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane

ACTIVE

CAS: 68512-30-1 Phenol, methylstyrenated

ACTIVE

CAS: 71-36-3 butan-1-ol

ACTIVE

CAS: 100-41-4 ethylbenzene

ACTIVE

CAS: 68611-44-9 Kieselsäure hydrophobiert hochdisperse

ACTIVE

CAS: 123-26-2 N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

ACTIVE

CAS: 16389-88-1 dolomite

ACTIVE

CAS: 85711-55-3 Fatty acids, tall oil, compounds with oleylamine

ACTIVE

CAS: 68187-76-8 ricinusolie, gesulfateerd, natriumzout

ACTIVE

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

ACTIVE

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

ACTIVE

CAS: 98-82-8 Cumene

ACTIVE

CAS: 112-90-3 (Z)-octadec-9-enylamine

ACTIVE

- **Hazardous Air Pollutants**

CAS: 1330-20-7 xylene

CAS: 100-41-4 ethylbenzene

CAS: 98-82-8 Cumene

- **Proposition 65**

- **Chemicals known to cause cancer:**

CAS: 100-41-4 ethylbenzene

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CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )
CAS: 98-82-8	Cumene

**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.

**Carcinogenicity categories**
**EPA (Environmental Protection Agency)**

CAS: 7440-66-6	zinc powder -zinc dust (stabilized)	II
CAS: 1330-20-7	xylene	I
CAS: 1314-13-2	zinc oxide	D, I, II
CAS: 71-36-3	butan-1-ol	D
CAS: 100-41-4	ethylbenzene	D
CAS: 98-82-8	Cumene	D, CBD

**TLV (Threshold Limit Value)**

CAS: 14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	A4
CAS: 1330-20-7	xylene	A4
CAS: 100-41-4	ethylbenzene	A3
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	A2
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	A2

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

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

**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:**
**Date of preparation / last revision** 07/03/2024

**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)

PBT: Persistent, Bioaccumulative and Toxic

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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  
BEL: Biological Exposure Limit  
Flammable Liquids 3: Flammable liquids – Category 3  
Skin Irritation 2: Skin corrosion/irritation – Category 2  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Sensitization - Skin 1: Skin sensitisation – Category 1  
Carcinogenicity 2: Carcinogenicity – Category 2

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

— US —