



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.02.2015

Version number 10

Revision: 12.02.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** KEIM I.G.Primer (I&F-Grund)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Priming
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 KEIM MINERAL PAINTS LTD
 Santok Building
 Deer Park Way
 Donnington Wood
 Telford
 Shropshire
 TF2 7NA
 United Kingdom
 Tel: +44 1952 231250
 Fax: +44 1952 231251
 Url: <http://www.keimpaints.co.uk>
- **Further information obtainable from:**
 David Pratt
 Telefon: +44 1952 231250
 E-Mail: sales@keimpaints.co.uk
- **1.4 Emergency telephone number:**
 GBK Gefahrgut Büro GmbH
 Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 Flam. Liq. 2 H225 Highly flammable liquid and vapour.
 Eye Dam. 1 H318 Causes serious eye damage.
 STOT SE 3 H336 May cause drowsiness or dizziness.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xi; Irritant
 R36: Irritating to eyes.
 F; Highly flammable
 R11: Highly flammable.
 R67: Vapours may cause drowsiness and dizziness.
- **Information concerning particular hazards for human and environment:**
 Has a narcotising effect.
- **Classification system:**
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



GHS02 GHS05 GHS07

· **Signal word** Danger

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

2-methylpropan-1-ol
ethyl acetate

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/attention.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Preparation based on synthetic resin and organic solvents

· **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-XXXX	ethyl acetate ☒ Xi R36; ☒ F R11 R66-67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate R10-66-67 ☒ Flam. Liq. 3, H226; ☒ STOT SE 3, H336	10-25%

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CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1 Reg.nr.: 01-2119484609-23-XXXX	2-methylpropan-1-ol ☒ Xi R37/38-41 R10-67 ☒ Flam. Liq. 3, H226; ☒ Eye Dam. 1, H318; ☒ Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate R10 ☒ Flam. Liq. 3, H226	2.5-10%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol ☒ F R11 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319	2.5-10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

With appearance of symptoms or in cases of doubt seek medical advice .
In case of unconsciousness place patient stably in side position for transportation.
When seeing the doctor we suggest to present this safety data sheet.
Immediately remove any clothing soiled by the product.

· **After inhalation:**

Take affected persons into fresh air and keep quiet.
Seek medical treatment in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse mouth and throat well with water.
Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, thick, black smoke develops. Inhalation of the dangerous decomposition products may cause serious health damages.
In case of fire, the following can be released:
carbon oxide (CO_x)
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breath smoke, fumes and vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Keep away from ignition sources.
Ensure adequate ventilation
Do not inhale fumes.
Respect the protection rules (see section 7 a. 8).
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach soil, sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Absorb with non-combustible liquid-binding material (sand, diatomite, vermiculite).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.

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- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 Avoid contact with skin and eyes.
 See item 8 for information about suitable protective equipment and technical precautions.
 Respect the protection rules.
- **Information about fire - and explosion protection:**
 Fumes can combine with air to form an explosive mixture.
 Use explosion-proof apparatus / fittings and spark-proof tools.
 Use only in explosion protected area.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 - **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
 Store only in unopened original receptacles.
 Keep container tightly closed . Do not empty container under pressure, non-pressure vessel ! Close opened containers carefully and store upright, to prevent any leakage.
 Store in a cool location.
 - **Information about storage in one common storage facility:**
 Do not store together with alkalis (caustic solutions).
 Do not store together with oxidising and acidic materials.
 - **Further information about storage conditions:**
 Store under lock and key and out of the reach of children.
 Store receptacle in a well ventilated area.
 Protect from frost.
 Please note information on label
 Keep container tightly sealed.
 Protect from heat and direct sunlight.
 - **Storage class: 3**
 - **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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78-83-1 2-methylpropan-1-ol

WEL	Short-term value: 231 mg/m ³ , 75 ppm Long-term value: 154 mg/m ³ , 50 ppm
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108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

64-17-5 ethanol

WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
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· DNELs
123-86-4 n-butyl acetate

Oral	Long-term - systemic effects, consumer	3.4 mg/kg/day (consumer)
Dermal	Long-term - local effects, worker	7 mg/kg/day (worker)
	Long-term - systemic effects, consumer	3.4 mg/kg/day (consumer)
Inhalative	Acute - local effects, consumer	859.7 mg/m ³ (consumer)
	Acute - local effects, worker	960 mg/m ³ (worker)
	Acute-systemic effects, consumer	859.7 mg/m ³ (consumer)
	Acute-systemic effects, worker	960 mg/m ³ (worker)
	Long-term - local effects, consumer	102.34 mg/m ³ (consumer)
	Long-term - local effects, worker	48 mg/m ³ (worker)
	Long-term - systemic effects, consumer	12 mg/m ³ (consumer)
	Long-term - systemic effects, worker	48 mg/m ³ (worker)

· PNECs
123-86-4 n-butyl acetate

Aquatic compartment - freshwater	0.18 mg/l (freshwater)
Aquatic compartment - marine water	0.018 mg/l (marine water)
Aquatic compartment - sediment in freshwater	0.981 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.0981 mg/kg sed dw (sediment marine water)
Aquatic compartment - water, intermittent releases	0.36 mg/l (not specified)
Sewage treatment plant	35.6 mg/l (sewage treatment plant)
Terrestrial compartment - soil	0.0903 mg/kg dw (soil)

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 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.
 Avoid contact with the eyes and skin.
 Do not inhale gases / fumes / aerosols.

· Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.
 Combination filter A

· Protection of hands:

Protective gloves
 After each cleaning use treatment creams, for very dry skin greasy ointments.

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- **Material of gloves**

suitable material e.g.:

Butyl rubber, BR

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**

Value for the permeation: Level \geq 6 (480 min)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

- **Eye protection:**

if applicable face protection

Tightly sealed goggles

- **Body protection:**

Solvent resistant protective clothing

After contact with skin wash thoroughly with water.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
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Colour:	Colourless
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Odour:	Solvent-like
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Odour threshold:	Not determined.
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pH-value:	Not determined
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- **Change in condition**

Melting point/Melting range:	Not determined
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Boiling point/Boiling range:	> 35 °C
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Flash point:	< 7 °C
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Flammability (solid, gaseous):	Not applicable.
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Ignition temperature:	Not determined.
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Decomposition temperature:	Not determined.
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Self-igniting:	Product is not selfigniting.
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Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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- **Explosion limits:**

Lower:	Not determined.
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Upper:	Not determined.
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Oxidising properties	Not applicable.
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· Vapour pressure at 50 °C:	1100 hPa
· Density at 20 °C:	0.9* g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Partly soluble.
· Partition coefficient (n-octanol/water):	Not applicable.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	15 s (DIN 53211/4)
· Solvent separation test:	3 % (20 °C)
· 9.2 Other information	* The values are for freshly produced material and may change with the time.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability Stable under normal conditions of storage and use.
- Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
Bases
oxidizing agents
Acids
- 10.6 Hazardous decomposition products:
In case of fire, the following can be released:
carbon oxide (COx)
Nitrogen oxides (NOx)
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:

· LD/LC50 values relevant for classification:

141-78-6 ethyl acetate

Oral	LD50	5620 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/l (rat)

123-86-4 n-butyl acetate

Oral	LD50	13100 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)

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Inhalative	LC50/4 h	>21.0 mg/l (rat)
67-63-0 propan-2-ol		
Oral	LD50	> 4700 mg/kg (rat)
Dermal	LD50	>12800 mg/kg (rabbit)
Inhalative	LC50/4 h	46.6 mg/l (rat)
78-83-1 2-methylpropan-1-ol		
Oral	LD50	2460 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)
64-17-5 ethanol		
Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4 h	20000 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Frequent persistent contact with the skin may cause skin irritation.

- **on the eye:** Irritating effect.

- **during inhalation:**

Vapours may cause drowsiness and dizziness.

Irritating to respiratory system.

- **during swallowing:** Irritant effect possible

- **Sensitisation:** No sensitising effects known.

- **Other information (about experimental toxicology):**

Experimental analysis are not available.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

67-63-0 propan-2-ol	
EC 50/48h	13299 mg/l (daphnia)
EC 50/96h	> 1000 mg/l (algae)
64-17-5 ethanol	
EC 50/48h	> 1000 mg/l (bacteria)
	> 5000 mg/l (daphnia)
EC 50/72 h	> 100 mg/l (algae)
LC 50/96 h	> 2000 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **AOX-indication:**
According to our standard of knowledge the product does not contain any organic bounded halogen.
The product has no influence on the waste water's AOX-value.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
- **General notes:**
At present there are no ecotoxicological assessments.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1263 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1263 PAINT, special provision 640D
PAINT |

- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**



- **Class** 3 Flammable liquids.

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· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 33 F-E, <u>S-E</u>
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	5L Code: E2 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E2
· UN "Model Regulation":	UN1263, PAINT, special provision 640D, 3, II

* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
TRGS 200 (Germany)
TRGS 500 (Germany)
TRGS 510 (Germany)
TRGS 900 (Germany)
- **Product-Code/Giscode:** M-GF05
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H225 Highly flammable liquid and vapour.

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- H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
- R10 Flammable.
 R11 Highly flammable.
 R36 Irritating to eyes.
 R37/38 Irritating to respiratory system and skin.
 R41 Risk of serious damage to eyes.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

• **Department issuing MSDS:** KEIMFARBEN Germany, Product safety department

• **Contact:** Mrs. Popescu

• **Abbreviations and acronyms:**

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

• *** Data compared to the previous version altered.**