

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/30/2019

Reviewed on 05/30/2019

1 Identification

- **Product identifier**
- **Trade name:** Berry Fragrance
- **Part number:** 90-4120-15, 90-0931-15, 34-8000-15, 90-8000-15, 34-9000-15, 90-9000-15, 34-7600-15, 34-7700-15
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Vaportek, Inc.
 W226N6339 Village Drive
 Sussex, Wisconsin 53089
 USA
 800.237.6367
- **Information department:** Regulatory Department
- **Emergency telephone number:**
 Hours of operation: 7:00 AM – 4:00 PM Mon-Fri. (CST)
 Domestic North America (262) 246-5060

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**
 METHYL IONONE GAMMA
 ALDEHYDE C-16
 ORANGE TERPENES
 CINNAMIC ALDEHYDE
 ALPHA PINENE
 LINALOOL
 CLOVE OIL
 ANETHOLE
 CITRONELLA OIL

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COUMARIN
EUCALYPTUS OIL
ORANGE OIL

· **Hazard statements**

Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
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.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	2
REACTIVITY	0

Health = 2
Fire = 2
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

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

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

127-51-5	METHYL IONONE GAMMA ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2B, H320	>10–≤25%
110-19-0	ISOBUTYL ACETATE ⚠ Flam. Liq. 2, H225	>10–≤25%
77-83-8	ALDEHYDE C-16 ⚠ Skin Sens. 1, H317	>10–≤25%
98-55-5	TERPINEOL ALPHA ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>2.5–<10%
119-36-8	METHYL SALICYLATE ⚠ Acute Tox. 4, H302	>2.5–≤10%
100-52-7	BENZALDEHYDE ⚠ Acute Tox. 4, H302; Flam. Liq. 4, H227	>2.5–≤10%
6413-10-1	FRUCTONE Flam. Liq. 4, H227	>2.5–≤10%
5989-27-5	ORANGE TERPENES ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>2.5–<10%
104-55-2	CINNAMIC ALDEHYDE ⚠ Acute Tox. 3, H311; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥1–≤2.5%
106-27-4	AMYL BUTYRATE ⚠ Flam. Liq. 3, H226	≤2.5%
80-56-8	ALPHA PINENE ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1–≤2.5%
78-70-6	LINALOOL ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317; Flam. Liq. 4, H227	≥1–≤2.5%
8000-34-8	CLOVE OIL ⚠ Asp. Tox. 1, H304; ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥1–≤2.5%
125-12-2	ISOBORNYL ACETATE Flam. Liq. 4, H227	≤2.5%
4180-23-8	ANETHOLE ⚠ Skin Sens. 1, H317	≥1–≤2.5%
121-33-5	VANILLIN ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	≤2.5%
8000-29-1	CITRONELLA OIL ⚠ Asp. Tox. 1, H304; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	≥0.1–<1%
91-64-5	COUMARIN ⚠ Acute Tox. 3, H301; ⚠ Skin Sens. 1, H317	≥0.1–<1%
8000-48-4	EUCALYPTUS OIL ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1–<1%

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8008-57-9 ORANGE OIL

≥0.1- <1%

◆ Flam. Liq. 3, H226; ◆ Asp. Tox. 1, H304; ◆ Skin Irrit. 2, H315; Skin Sens. 1, H317

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:**
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.
- **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-I:**

110-19-0	ISOBUTYL ACETATE	450 ppm
119-36-8	METHYL SALICYLATE	2.3 ppm
100-52-7	BENZALDEHYDE	4 ppm

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5989-27-5	ORANGE TERPENES	15 ppm
628-63-7	PENTYL ACETATE	100 ppm
91-64-5	COUMARIN	0.88 mg/m ³
140-11-4	BENZYL ACETATE	30 ppm
89-83-8	THYMOL CRYSTALS	2.9 mg/m ³
99-87-6	PARACYMENE	120 mg/m ³

· PAC-2:

110-19-0	ISOBUTYL ACETATE	1300* ppm
119-36-8	METHYL SALICYLATE	25 ppm
100-52-7	BENZALDEHYDE	9.9 ppm
5989-27-5	ORANGE TERPENES	67 ppm
628-63-7	PENTYL ACETATE	670 ppm
91-64-5	COUMARIN	9.7 mg/m ³
140-11-4	BENZYL ACETATE	330 ppm
89-83-8	THYMOL CRYSTALS	32 mg/m ³
99-87-6	PARACYMENE	1,300 mg/m ³

· PAC-3:

110-19-0	ISOBUTYL ACETATE	7500** ppm
119-36-8	METHYL SALICYLATE	150 ppm
100-52-7	BENZALDEHYDE	59 ppm
5989-27-5	ORANGE TERPENES	170 ppm
628-63-7	PENTYL ACETATE	4000* ppm
91-64-5	COUMARIN	58 mg/m ³
140-11-4	BENZYL ACETATE	2,000 ppm
89-83-8	THYMOL CRYSTALS	190 mg/m ³
99-87-6	PARACYMENE	1,900 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep receptacle tightly sealed.

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· **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:**

110-19-0 ISOBUTYL ACETATE

PEL Long-term value: 700 mg/m³, 150 ppm

REL Long-term value: 700 mg/m³, 150 ppm

TLV Short-term value: 712 mg/m³, 150 ppm
Long-term value: 238 mg/m³, 50 ppm

100-52-7 BENZALDEHYDE

WEEL Short-term value: 4 ppm

Long-term value: 2 ppm

DSEN

80-56-8 ALPHA PINENE

TLV Long-term value: 112 mg/m³, 20 ppm

DSEN

121-33-5 VANILLIN

WEEL Long-term value: 10 mg/m³

· **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.

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.

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- **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.

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Liquid
Color: Pale yellow to yellow

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 117.2 °C (243 °F)

- **Flash point:** 42.8 °C (109 °F)

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

- **Ignition temperature:** 405 °C (761 °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: 2.4 Vol %
Upper: 10.5 Vol %

- **Vapor pressure at 20 °C (68 °F):** 20 hPa (15 mm Hg)

- **Density at 20 °C (68 °F):** 0.96195 g/cm³ (8.02747 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: Not determined.

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· Solvent content:	
Organic solvents:	22.0 %
VOC content:	21.98 %
	211.4 g/l / 1.76 lb/gal
· Solids content:	
	2.9 %
· 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:**

ATE (Acute Toxicity Estimate)

Oral	LD50	9,297 mg/kg (rat)
Dermal	LD50	12,144 mg/kg

110-19-0 ISOBUTYL ACETATE

Oral	LD50	13,400 mg/kg (rat)
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98-55-5 TERPINEOL ALPHA

Oral	LD50	4,300 mg/kg (rat)
------	------	-------------------

119-36-8 METHYL SALICYLATE

Oral	LD50	887 mg/kg (rat)
------	------	-----------------

100-52-7 BENZALDEHYDE

Oral	LD50	1,300 mg/kg (rat)
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5989-27-5 ORANGE TERPENES

Oral	LD50	4,400 mg/kg (rat)
------	------	-------------------

104-55-2 CINNAMIC ALDEHYDE

Oral	LD50	2,220 mg/kg (rat)
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78-70-6 LINALOOL

Oral	LD50	2,790 mg/kg (rat)
Dermal	LD50	5,610 mg/kg (rabbit)

125-12-2 ISOBORNYL ACETATE

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

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121-33-5 VANILLIN

Oral	LD50	1,580 mg/kg (rat)
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91-64-5 COUMARIN

Oral	LD50	293 mg/kg (rat)
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- **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)**

5989-27-5	ORANGE TERPENES	3
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91-64-5	COUMARIN	3
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140-11-4	BENZYL ACETATE	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

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

- **Behavior in environmental systems:**

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

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

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number · DOT · IMDG, IATA	<i>not regulated</i> <i>UNI266</i>
· UN proper shipping name · DOT · IMDG · IATA	<i>not regulated</i> <i>PERFUMERY PRODUCTS (METHYL IONONE GAMMA, ALDEHYDE C-16), MARINE POLLUTANT</i> <i>PERFUMERY PRODUCTS</i>
· Transport hazard class(es) · DOT · Class	<i>not regulated</i>
· IMDG	
 	
· Class · Label	<i>3 Flammable liquids</i> <i>3</i>
· IATA	
	
· Class · Label	<i>3 Flammable liquids</i> <i>3</i>
· Packing group · DOT · IMDG, IATA	<i>not regulated</i> <i>III</i>
· Environmental hazards: · Marine pollutant:	<i>Product contains environmentally hazardous substances: ORANGE TERPENES</i> <i>Symbol (fish and tree)</i>
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	<i>Warning: Flammable liquids</i> <i>30</i> <i>F-E,S-D</i> <i>A</i>
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	<i>Not applicable.</i>

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· Transport/Additional information:
· 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 1266 PERFUMERY PRODUCTS, 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara
· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65
· Chemicals known to cause cancer:

123-35-3 MYRCENE

· 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.

· Carcinogenic categories
· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

80-56-8 ALPHA PINENE

A4

140-11-4 BENZYL ACETATE

A4

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

None of the ingredients is listed.

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

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· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

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

METHYL IONONE GAMMA
ALDEHYDE C-16
ORANGE TERPENES
CINNAMIC ALDEHYDE
ALPHA PINENE
LINALOOL
CLOVE OIL
ANETHOLE
CITRONELLA OIL
COUMARIN
EUCALYPTUS OIL
ORANGE OIL

· **Hazard statements**

Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
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.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **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:** Regulatory Department

· **Date of preparation / last revision** 05/30/2019 / -

· **Abbreviations and acronyms:**

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

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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

Skin Sens. 1: Skin sensitisation – Category 1

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

Asp. Tox. 1: Aspiration hazard – Category 1

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