

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/04/2024

Reviewed on 03/04/2024

1 Identification

- **Product identifier**
- **Trade name:** Berry Fragrance
- **Part numbers:** 34-7600-15, 90-4120-15
- **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

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



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

- **Signal word** Warning
- **Hazard-determining components of labeling:**
 METHYL IONONE GAMMA
 methyl salicylate
 ALDEHYDE C-16
 ORANGE TERPENES
 CINNAMIC ALDEHYDE

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Trade name: **Berry Fragrance**

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L-ALPHA PINENE
 CLOVE OIL
 ANETHOLE
 CITRONELLA OIL
 COUMARIN
 EUCALYPTUS OIL
 LINALOOL
 ORANGE OIL

· **Hazard statements**

Flammable liquid and vapor.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 Suspected of damaging fertility or the unborn child.

· **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 CO₂, 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)**



· **HMIS-ratings (scale 0 - 4)**



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

· Dangerous components:

127-51-5	METHYL IONONE GAMMA ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Eye Irritation 2B, H320	>10-≤25%
110-19-0	ISOBUTYL ACETATE ⚠ Flammable Liquids 2, H225	>10-≤25%
77-83-8	ALDEHYDE C-16 ⚠ Sensitization - Skin 1, H317	>10-≤25%
98-55-5	TERPINEOL ALPHA ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	>2.5-<10%
119-36-8	methyl salicylate ⚠ Toxic to Reproduction 2, H361; ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1B, H317	>2.5-≤10%
100-52-7	BENZALDEHYDE ⚠ Acute Toxicity - Oral 4, H302; Flammable Liquids 4, H227	>2.5-≤10%
6413-10-1	FRUCTONE Flammable Liquids 4, H227	>2.5-≤10%
5989-27-5	ORANGE TERPENES ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1B, H317	>2.5-<10%
104-55-2	CINNAMIC ALDEHYDE ⚠ Acute Toxicity - Dermal 3, H311; ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	≥1-≤2.5%
123-92-2	AMYL ACETATE ⚠ Flammable Liquids 3, H226	≤2.5%
106-27-4	AMYL BUTYRATE ⚠ Flammable Liquids 3, H226	≤2.5%
7785-26-4	L-ALPHA PINENE ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	≥1-≤2.5%
78-70-6	LINALOOL ⚠ Sensitization - Skin 1B, H317; Flammable Liquids 4, H227	≥1-≤2.5%
8000-34-8	CLOVE OIL ⚠ Aspiration Hazard 1, H304; ⚠ Eye Irritation 2A, H319; Sensitization - Skin 1, H317	≥1-≤2.5%
125-12-2	ISOBORNYL ACETATE Flammable Liquids 4, H227	≤2.5%
121-33-5	VANILLIN ⚠ Acute Toxicity - Oral 4, H302; Eye Irritation 2A, H319	≤2.5%

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4180-23-8	ANETHOLE ⚠ Sensitization - Skin 1, H317	≥1-≤2.5%
8000-29-1	CITRONELLA OIL ⚠ Aspiration Hazard 1, H304; ⚠ Eye Damage 1, H318; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	≥0.1-<1%
91-64-5	COUMARIN ⚠ Acute Toxicity - Oral 3, H301; ⚠ Sensitization - Skin 1, H317	≥0.1-<1%
8000-48-4	EUCALYPTUS OIL ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	≥0.1-<1%
8008-57-9	ORANGE OIL ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	≥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.
- **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 section 13.
Ensure adequate ventilation.

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- **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:**

110-19-0	ISOBUTYL ACETATE	450 ppm
119-36-8	methyl salicylate	2.3 ppm
100-52-7	BENZALDEHYDE	4 ppm
5989-27-5	ORANGE TERPENES	15 ppm
123-92-2	AMYL 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
123-92-2	AMYL ACETATE	500 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
123-92-2	AMYL ACETATE	3000* 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.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

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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 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.

· **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 section 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.

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: 150 ppm
Long-term value: 50 ppm

100-52-7 BENZALDEHYDE

WEEL Short-term value: 4 ppm
Long-term value: 2 ppm
DSEN

123-92-2 AMYL ACETATE

PEL Long-term value: 525 mg/m³, 100 ppm

REL Long-term value: 525 mg/m³, 100 ppm

TLV Short-term value: 100 ppm
Long-term value: 50 ppm

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.

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.

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· **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.

· **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:** 43 °C (109.4 °F)

· **Flammability (solid, gaseous):** Flammable.

· **Auto igniting:** 405 °C (761 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** 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)

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- | | |
|------------------------------------|---|
| · Density at 20 °C (68 °F): | 0.96195 g/cm ³ (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. |

- | | |
|---------------------------|-------------------------|
| · Solvent content: | |
| Organic solvents: | 23.0 % |
| VOC content: | 22.97 % |
| | 221.0 g/l / 1.84 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)		
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Dermal	LD50	12,144 mg/kg
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78-70-6 LINALOOL		
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Dermal	LD50	5,610 mg/kg (rabbit)
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125-12-2 ISOBORNYL ACETATE		
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Dermal	LD50	20,000 mg/kg (rabbit)
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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

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

5989-27-5	ORANGE TERPENES	3
91-64-5	COUMARIN	3
140-11-4	BENZYL ACETATE	3
123-35-3	MYRCENE	2B

· **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 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**· **IMDG, IATA**

not regulated

UN1266

· **UN proper shipping name**· **DOT**· **IMDG**· **IATA**

not regulated

PERFUMERY PRODUCTS, MARINE POLLUTANT

PERFUMERY PRODUCTS

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· **Transport hazard class(es)**· **DOT**· **Class** not regulated· **IMDG**· **Class** 3 Flammable liquids· **Label** 3· **IATA**· **Class** 3 Flammable liquids· **Label** 3· **Packing group**· **DOT** not regulated· **IMDG, IATA** III· **Environmental hazards:** Product contains environmentally hazardous substances:
ORANGE TERPENES· **Marine pollutant:** Symbol (fish and tree)· **Special precautions for user** Warning: Flammable liquids· **Hazard identification number (Kemler code):** 30· **EMS Number:** F-E,S-D· **Stowage Category** A· **Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code** Not applicable.· **Transport/Additional information:**· **IMDG**· **Limited quantities (LQ)** 5L· **Excepted quantities (EQ)** Code: E1Maximum net quantity per inner packaging: 30 mlMaximum 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.

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· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):** All substances are active or exempt.

· **Hazardous Air Pollutants**

None of the ingredients is 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)**

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).

· **Hazard pictograms**



GHS02

GHS07

GHS08

· **Signal word** Warning

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

METHYL IONONE GAMMA

methyl salicylate

ALDEHYDE C-16

ORANGE TERPENES

CINNAMIC ALDEHYDE

L-ALPHA PINENE

CLOVE OIL

ANETHOLE

CITRONELLA OIL

COUMARIN

EUCALYPTUS OIL

LINALOOL

ORANGE OIL

· **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

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May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

· **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 CO₂, 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.

· **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** 03/04/2024

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

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*Flammable Liquids 3: Flammable liquids – Category 3**Flammable Liquids 4: Flammable liquids – Category 4**Acute Toxicity - Oral 4: Acute toxicity – Category 4**Acute Toxicity - Dermal 3: Acute toxicity – Category 3**Skin Irritation 2: Skin corrosion/irritation – Category 2**Eye Damage 1: Serious eye damage/eye irritation – Category 1**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B**Sensitization - Skin 1: Skin sensitisation – Category 1**Sensitization - Skin 1B: Skin sensitisation – Category 1B**Toxic to Reproduction 2: Reproductive toxicity – Category 2**Aspiration Hazard 1: Aspiration hazard – Category 1**** Data compared to the previous version altered.**

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