

**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Date of issue: 04/15/2026

Reviewed on 04/15/2026

**1 Identification**

· **Product identifier**

- Trade name: Grillwood Extract OS Natural
- Other means of identification

· **Product number:** 6203

· **Application of the substance / the mixture** Flavoring Ingredients

· **Details of the supplier of the safety data sheet**

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· **Manufacturer/Supplier:**

Advanced Biotech  
10 Taft Road  
Totowa, NJ 07512 USA

· **Information department:**

Product Safety Department  
productsafety@adv-bio.com

· **Emergency telephone number:**

Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International) Contract 72941  
Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

**2 Hazard(s) identification**

· **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 2      H351 Suspected of causing cancer.



GHS07

Sensitization - skin 1      H317 May cause an allergic skin reaction.

· **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

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

· **Hazard pictograms**



GHS07



GHS08

· **Signal word** Warning

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

Furfural  
Methylcyclopentenolone  
2-Methoxy-4-methylphenol  
2,3-Pentanedione

· **Hazard statements**

H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable  
· **vPvB:** Not applicable

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

CAS: 106-44-5	p-Cresol	2.5-10%
EINECS: 203-398-6	☠ Acute toxicity - oral 3, H301; Acute toxicity - dermal 3, H311	

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CAS: 80-71-7 EINECS: 201-303-2	Methylcyclopentenolone ⚠ Acute toxicity - oral 4, H302; Sensitization - skin 1, H317	≥0.1-<1%
CAS: 98-01-1 EINECS: 202-627-7	Furfural ⚠ Flammable liquids 3, H226; ⚠ Acute toxicity - oral 3, H301; Acute toxicity - inhalation 3, H331; ⚠ Carcinogenicity 2, H351; ⚠ Acute toxicity - dermal 4, H312; Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335	≥0.1-≤2.5%
CAS: 93-51-6 EINECS: 202-252-9	2-Methoxy-4-methylphenol ⚠ Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317	≥0.1-<1%
CAS: 116-09-6 EINECS: 204-124-8	hydroxyacetone ⚠ Flammable liquids 3, H226; ⚠ Acute toxicity - dermal 3, H311; ⚠ Acute toxicity - inhalation 4, H332	≤2.5%
CAS: 108-95-2 EINECS: 203-632-7	Phenol ⚠ Acute toxicity - oral 3, H301; Acute toxicity - dermal 3, H311	<1%
CAS: 79-09-4 EINECS: 201-176-3	Propanoic acid ⚠ Flammable liquids 3, H226; ⚠ Acute toxicity - dermal 3, H311	≤2.5%
CAS: 600-14-6 EINECS: 209-984-8	2,3-Pentanedione ⚠ Flammable liquids 2, H225; ⚠ Specific target organ toxicity (repeated exposure) 2, H373; ⚠ Eye damage 1, H318; ⚠ 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 be sure to 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.
- **After swallowing:** If symptoms persist consult 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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**  
Cool endangered receptacles with water spray.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required
- **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.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 116-09-6	hydroxyacetone	6.0 mg/m3
CAS: 108-95-2	Phenol	15 ppm
	Proprietary FEMA/GRAS flavoring ingredient	3.4 mg/m3
CAS: 79-09-4	Propanoic acid	45 mg/m3
	Proprietary FEMA/GRAS Flavoring Ingredient	6.0 mg/m3
CAS: 120-80-9	1,2-dihydroxybenzene	15 ppm
	Proprietary FEMA/GRAS flavoring ingredient	150 ppm
	Proprietary FEMA/GRAS flavoring ingredient	200 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	250 ppm
	Proprietary FEMA/GRAS flavoring ingredient	21 mg/m3

· **PAC-2:**

CAS: 116-09-6	hydroxyacetone	66 mg/m3
CAS: 108-95-2	Phenol	23 ppm
	Proprietary FEMA/GRAS flavoring ingredient	37 mg/m3
CAS: 79-09-4	Propanoic acid	86 mg/m3
	Proprietary FEMA/GRAS Flavoring Ingredient	66 mg/m3
CAS: 120-80-9	1,2-dihydroxybenzene	170 ppm
	Proprietary FEMA/GRAS flavoring ingredient	350 ppm
	Proprietary FEMA/GRAS flavoring ingredient	2700 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	1700 ppm
	Proprietary FEMA/GRAS flavoring ingredient	230 mg/m3

· **PAC-3:**

CAS: 116-09-6	hydroxyacetone	400 mg/m3
CAS: 108-95-2	Phenol	200 ppm
	Proprietary FEMA/GRAS flavoring ingredient	220 mg/m3
CAS: 79-09-4	Propanoic acid	510 mg/m3
	Proprietary FEMA/GRAS Flavoring Ingredient	400 mg/m3
CAS: 120-80-9	1,2-dihydroxybenzene	990 ppm
	Proprietary FEMA/GRAS flavoring ingredient	2100* ppm
	Proprietary FEMA/GRAS flavoring ingredient	4000 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	10000 ppm
	Proprietary FEMA/GRAS flavoring ingredient	1400 mg/m3

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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.

**7 Handling and storage**

· **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 respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

- Please refer to the product specification and/or Certificate of Analysis for product storage 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**

· **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.

**CAS: 106-44-5 p-Cresol**

PEL	Long-term value: 22 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 10 mg/m <sup>3</sup> , 2.3 ppm
TLV	Long-term value: 20* mg/m <sup>3</sup> Skin;*as inhalable fraction and vapor, A4

**CAS: 98-01-1 Furfural**

PEL	Long-term value: 20 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 0.8 mg/m <sup>3</sup> , 0.2 ppm Skin; BEI, A3

**CAS: 108-95-2 Phenol**

PEL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Ceiling limit value: 60* mg/m <sup>3</sup> , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin; BEI, A4

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**CAS: 79-09-4 Propanoic acid**

REL	Short-term value: 45 mg/m <sup>3</sup> , 15 ppm Long-term value: 30 mg/m <sup>3</sup> , 10 ppm
TLV	Long-term value: 30 mg/m <sup>3</sup> , 10 ppm

**Ingredients with biological limit values:**

**CAS: 108-95-2 Phenol**

BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as a basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **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.
- **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 should be based 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 determined by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling.

**9 Physical and chemical properties**

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

· **General Information**

· **Physical state**

Liquid

· **Color:**

According to product specification

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· <b>Odor:</b>	According to product specification
· <b>Odor threshold:</b>	Not determined
· <b>Melting point/Melting range:</b>	Undetermined
· <b>Boiling point/Boiling range:</b>	Undetermined
· <b>Flammability:</b>	Not applicable
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined
· <b>Upper:</b>	Not determined
· <b>Flash point:</b>	98 °C (208.4 °F)
· <b>Decomposition temperature:</b>	Not determined
· <b>pH-value:</b>	Not determined
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined
· <b>Dynamic:</b>	Not determined
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined
· <b>Vapor pressure:</b>	Not determined
· <b>Vapor pressure:</b>	
· <b>Density at 20 °C (68 °F):</b>	0.95-1 g/cm <sup>3</sup> (7.92775-8.345 lbs/gal)
· <b>Relative density</b>	Not determined
· <b>Specific Gravity</b>	0.950 – 1.000 @ 20 °C (33.7 – 33.8 @ 68 °F)
· <b>Refractive Index</b>	
· <b>Vapor density</b>	Not determined
· <b>Particle characteristics</b>	Not applicable

· <b>Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.8 %
· <b>VOC content:</b>	0.82 %
	7.8-8.2 g/l / 0.07 lb/gal
· <b>Solids content:</b>	0.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined

**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.

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· **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	3,796 mg/kg
Dermal	LD50	6,834 mg/kg
Inhalative	LC50/4 h	244 mg/l (ATE)

**CAS: 106-44-5 p-Cresol**

Oral	LD50	207 mg/kg (ATE) 207 mg/kg (rat)
Dermal	LD50	300 mg/kg (ATE) 301 mg/kg (rabbit)

· **Primary irritant effect:**

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

· **on the eye:** No 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

· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories**

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

CAS: 108-95-2	Phenol	3
	Proprietary FEMA/GRAS flavoring ingredient	3
CAS: 120-80-9	1,2-dihydroxybenzene	2B
	Proprietary GRAS Ingredient	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

**12 Ecological information**

· **Toxicity**

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

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

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

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

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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**

· <b>UN-Number</b>	
· <b>DOT, IMDG, IATA</b>	Not Regulated
· <b>UN proper shipping name</b>	
· <b>DOT, IMDG, IATA</b>	Not Regulated
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADN, IMDG, IATA</b>	
· <b>Class</b>	Not Regulated
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	Not Regulated
· <b>Environmental hazards:</b>	Not applicable
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>Special precautions for user</b>	Not applicable
· <b>UN "Model Regulation":</b>	Not Regulated

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

CAS: 108-95-2 | Phenol

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<b>Section 313 (Specific toxic chemical listings):</b>	
CAS: 106-44-5	p-Cresol
CAS: 108-95-2	Phenol
CAS: 120-80-9	1,2-dihydroxybenzene

<b>TSCA (Toxic Substances Control Act):</b>		
CAS: 65381-09-1	Caprylic/Capric triglyceride	ACTIVE
CAS: 106-44-5	p-Cresol	ACTIVE
CAS: 80-71-7	Methylcyclopentenolone	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
CAS: 93-51-6	2-Methoxy-4-methylphenol	ACTIVE
CAS: 116-09-6	hydroxyacetone	ACTIVE
CAS: 108-95-2	Phenol	ACTIVE
	Proprietary FEMA/GRAS flavoring ingredient	ACTIVE
CAS: 79-09-4	Propanoic acid	ACTIVE
CAS: 600-14-6	2,3-Pentanedione	ACTIVE
	Proprietary GRAS Ingredient	ACTIVE
CAS: 120-80-9	1,2-dihydroxybenzene	ACTIVE
CAS: 110-13-4	acetonylacetone	ACTIVE
CAS: 526-75-0	2,3-xyleneol	ACTIVE

<b>Hazardous Air Pollutants</b>	
CAS: 106-44-5	p-Cresol
CAS: 108-95-2	Phenol
CAS: 120-80-9	1,2-dihydroxybenzene

<b>Proposition 65</b>	
<b>Chemicals known to cause cancer:</b>	
CAS: 120-80-9	1,2-dihydroxybenzene

<b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	

<b>Chemicals known to cause reproductive toxicity for males:</b>	
CAS: 110-13-4	acetonylacetone

<b>Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	

<b>Carcinogenic categories</b>		
<b>EPA (Environmental Protection Agency)</b>		
CAS: 106-44-5	p-Cresol	C
CAS: 108-95-2	Phenol	D, I
	Proprietary FEMA/GRAS flavoring ingredient	I

<b>TLV (Threshold Limit Value)</b>		
CAS: 108-95-2	Phenol	A4
CAS: 120-80-9	1,2-dihydroxybenzene	A3

<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	

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· **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.  
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

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

Furfural  
Methylcyclopentenolone  
2-Methoxy-4-methylphenol  
2,3-Pentanedione

· **Hazard statements**

H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P405 Store locked up.  
P501 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.

· **Relevant phrases**

H225 Highly flammable liquid and vapor.  
H226 Flammable liquid and vapor.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing SDS:** Product Safety Department

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· **Contact:**

Product Safety Department  
productsafety@adv-bio.com

· **Date of previous version** 04/14/2026

· **Date of preparation** 04/15/2026

· **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)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Flammable liquids 3: Flammable liquids – Category 3

Acute toxicity - oral 3: Acute toxicity – Category 3

Acute toxicity - oral 4: Acute toxicity – Category 4

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

Sensitization - skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

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

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

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