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## Safety Data Sheet acc. to OSHA HCS

Printing date 05/03/2023 Revision date 05/03/2023

#### 1 Identification

- · Product identifier
- · Trade name: Terpene Mixture 2 (CRM)
- · Article number: 25929
- · Application of the substance / the mixture

This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Cayman Chemical Co.
  1180 E. Ellsworth Rd.

Ann Arbor, MI 48108 USA

· Information department: Product safety department

· Emergency telephone number:

During normal opening times: +1 (734) 971-3335

US/CANADA: 800-424-9300

Outside US/CANADA: 703-741-5970

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Oral 3 H301 Toxic if swallowed.

Acute Toxicity - Dermal 3 H311 Toxic in contact with skin.

Acute Toxicity - Inhalation 3 H331 Toxic if inhaled.



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

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

child.

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous

system and the visual organs.

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

Aquatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting

effects.

Label elements

· GHS label elements

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

· Hazard pictograms









GHS02 GHS06 GHS07 GHS08

#### · Signal word Danger

· Hazard-determining components of labeling:

Methanol y-Terpinene (R)-(+)-Pulegone α-Pinene

Geraniol (−)-β-Pinene

[(1S)-endo]-(-)-Borneol

Terpinolene (+)-Limonene

· Hazard statements

H225 Highly flammable liquid and vapor.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

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

H361 Suspected of damaging fertility or the unborn child.

Causes damage to the central nervous system and the visual organs. H370

Harmful to aquatic life with long lasting effects. H412

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210

Ground/bond container and receiving equipment. P240

Use explosion-proof electrical/ventilating/lighting/equipment. P241

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment. P273

Wear protective gloves/protective clothing/eye protection/face protection. P280

P301+P310 If swallowed: Immediately call a poison center/doctor.

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(Contd. from page 2) P321 Specific treatment (see on this label). P330 Rinse mouth. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/attention. P312 Call a poison center/doctor if you feel unwell. P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. P370+P378 Store in a well-ventilated place. Keep container tightly closed. P403+P233 Store in a well-ventilated place. Keep cool. P403+P235 Store locked up. P405 P501 Dispose of contents/container in accordance with local/regional/national/international

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3 Reactivity = 0

regulations.

· HMIS-ratings (scale 0 - 4)



Health = \*2 Fire = 3

Reactivity = 0

· 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 compone	· Dangerous components:		
CAS: 67-56-1 RTECS: PC1400000	Methanol	97.9%	
CAS: 80-56-8 RTECS: DT7000000	α-Pinene	0.1%	
CAS: 89-82-7 RTECS: OT0261000	(R)-(+)-Pulegone	0.1%	
CAS: 99-85-4 RTECS: OS8070000	γ-Terpinene	0.1%	
CAS: 99-86-5 RTECS: OS8060000	α-Terpinene	0.1%	
CAS: 106-24-1 RTECS: RG5830000	Geraniol	0.1%	
	(Contd.	on page 4)	

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CAS: 127-91-3 RTECS: DT5077000	(−)-β-Pinene	0.1%
CAS: 464-45-9 RTECS: DT5095000	[(1S)-endo]-(-)-Borneol	0.1%
CAS: 469-61-4 RTECS: PB7725000	Cedrene	0.1%
CAS: 586-62-9 RTECS: WZ6870000	Terpinolene	0.1%
CAS: 5989-27-5 RTECS: GW6360000	(+)-Limonene	0.1%
CAS: 40716-66-3	trans-Nerolidol	0.1%
Other ingredients		
CAS: 464-43-7 RTECS: ED7060000	(+)-Borneol	0.1%
CAS: 464-48-2 RTECS: EX1250000	(1S)-(–)-Camphor	0.1%
CAS: 464-49-3 RTECS: EX1260000	(1R)-(+)-Camphor	0.1%
CAS: 489-86-1	(-)-Guaiol	0.1%
CAS: 546-79-2	sabinene hydrate	0.1%
CAS: 2217-02-9	(+)-Fenchol	0.1%
CAS: 3387-41-5 RTECS: DT7327100	Sabinene	0.1%
CAS: 6753-98-6 RTECS: GZ4817500	α-Humulene	0.1%
CAS: 7787-20-4 RTECS: RB 7875000	1,3,3 - Trimethylnorbornan - 2 - one	0.1%
CAS: 8000-41-7 RTECS: WZ6600000	Terpineol	0.1%

### 4 First-aid measures

- Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for 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. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

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· 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.

- Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### **6 Accidental release measures**

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

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.

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** 

	7.00.011 CTROTILE FOR CHIOMICAIO	
· PAC-1:		
67-56-1	Methanol	530 ppm
5989-27-5	(+)-Limonene	15 ppm
· PAC-2:		
67-56-1	Methanol	2,100 ppm
5989-27-5	(+)-Limonene	67 ppm
· PAC-3:		
67-56-1	Methanol	7200* ppm
5989-27-5	(+)-Limonene	170 ppm

### 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.

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Information about protection against explosions and fires:

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Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- Conditions for safe storage, including any incompatibilities
- · Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 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.

#### 67-56-1 Methanol

PEL Long-term value: 260 mg/m³, 200 ppm REL Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

TLV Short-term value: 250 ppm Long-term value: 200 ppm

Skin; BEI

#### 80-56-8 α-Pinene

TLV Long-term value: 20 ppm

DSEN, A4

#### 127-91-3 (-)-β-Pinene

TLV Long-term value: 20 ppm

DSEN, A4

#### Ingredients with biological limit values:

#### 67-56-1 Methanol

BEI 15 mg/L

Medium: urine Time: end of shift

Parameter: Methanol (background, nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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Avoid contact with the eyes and skin.

#### · Breathing equipment:

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

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

#### Material of gloves

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

#### · Penetration time of glove material

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

· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Informa	ation on	basic p	hysical	l and c	hemica	l properties
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· General Information

· Appearance:

Form: Liquid

**Color:** According to product specification

Odor: Alcohol-like
 Odor threshold: Not determined.
 Formulation A solution in methanol

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: -98 °C (-144.4 °F) Boiling point/Boiling range: 64.7 °C (148.5 °F)

• **Flash point:** 9.7 °C (49.5 °F)

· Flammability (solid, gaseous): Highly flammable.

· **Auto igniting**: 455 °C (851 °F)

Decomposition temperature: Not determined.

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	(Contd. from page
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	1000 g/l
Partition coefficient (n-octanol/wat	t <b>er):</b> Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	98.0 %
VOC content:	98.00 %
	980.0 g/l / 8.18 lb/gal
Solids content:	1.7 %
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 releva	nt for classification:
ATE (Acu	te Toxicity Estimate)	
Oral	LD50	102 mg/kg (rat)
Dermal	LD50	307 mg/kg (rabbit)
Inhalative	LC50/4 h	3.17 mg/l (rat)

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	4	(Contd. from pa
67-56-1 M		
Oral	LD50	100.1 mg/kg (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Anr VI (Table 3.1/3.2) Symptoms: Nausea, Vomiting
Dermal	LD50	300.1 mg/kg (rabbit) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Anr VI (Table 3.1/3.2)
Inhalative	LC50/4 h	3.1 mg/l (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Anr VI (Table 3.1/3.2) Symptoms: Irritation symptoms in the respiratory tract.
80-56-8 α	-Pinene	
Oral	LD50	3,700 mg/kg (rat)
Inhalative	LCLO	625 µg/m³ (rat)
	Intraperitoneal LD	>500 mg/kg (mouse)
89-82-7 (F	R)-(+)-Pulegone	
Oral	TDLO	4,875 ml/kg/13W intermittent (rat)
	LD50	470 mg/kg (rat)
Dermal	LD50	3,090 mg/kg (rabbit)
	Intraperitoneal TDLO	250 mg/kg (rat)
99-85-4 γ	Terpinene	
Oral	LD50	3,650 mg/kg (rat)
99-86-5 α	-Terpinene	
Oral	LD50	1,680 mg/kg (ATE)
		1,680 mg/kg (rat)
	Subcutaneous TDLO	34.5 mg/kg (rat)
106-24-1	Geraniol	
Oral	LD50	2,100 mg/kg (rat)
	LD50	3.5 g/kg (mouse)
	Subcutaneous LD50	1,090 mg/kg (mouse)
	−)-β-Pinene	
Oral	LD50	4,700 mg/kg (rat)
Inhalative		20,000 mg/m³ (mouse)
	Intraperitoneal TDLO	
	Intraperitoneal LD50	3,388 mg/kg (rat)
	(1S)-endo]-(-)-Borne	
Oral	LD50	5,800 mg/kg (rat)
	TDLO	5,000 mg/kg (rat)
	Terpinolene	
Oral	LD50	4,390 mg/kg (rat)
	(+)-Limonene	
Oral	LD50	4,400 mg/kg (rat)

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· 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:

Toxic Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
89-82-7 (R)-(+)-Pulegone	2B
5989-27-5 (+)-Limonene	3
· 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · 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.

Harmful to aquatic organisms

- 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.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

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UN-Number DOT, IMDG, IATA UN proper shipping name	111111111111111111111111111111111111111
IN proper shipping name	UN1992
on proper simpling name	
	Flammable liquids, toxic, n.o.s. (Methanol)
	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANO
IATA	Flammable liquid, toxic, n.o.s. (METHANOL)
Transport hazard class(es)	
DOT	
RAMIABRE LOUID TOXIC	
Class	3 Flammable liquids
	3, 6.1
IMDG	
	3 Flammable liquids 3/6.1
IATA	0/0.1
	3 Flammable liquids 3 (6.1)
	3 (0.1)
Packing group DOT, IMDG, IATA	II
	Not applicable.
	Warning: Flammable liquids
Hazard identification number (Kemler code):	
	F-E,S-D
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
·IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IATA	
Remarks:	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.  Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S (METHANOL), 3 (6.1), II

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 35	5 (extremely hazardous substances):	
None of the	e ingredients is listed.	
· Section 31	3 (Specific toxic chemical listings):	
67-56-1 M	ethanol	
TSCA (To)	ric Substances Control Act):	
67-56-1	Methanol	ACTIVE
80-56-8	α-Pinene	ACTIVE
89-82-7	(R)-(+)-Pulegone	ACTIVE
99-85-4	γ-Terpinene	ACTIVE
99-86-5	α-Terpinene	ACTIVE
106-24-1	Geraniol	ACTIVE
127-91-3	(−)-β-Pinene	ACTIVE
464-45-9	[(1S)-endo]-(-)-Borneol	ACTIVE
464-48-2	(1S)-(–)-Camphor	ACTIVE
464-49-3	(1R)-(+)-Camphor	ACTIVE
469-61-4	Cedrene	ACTIVE
489-86-1	(-)-Guaiol	ACTIVE
546-79-2	sabinene hydrate	ACTIVE
586-62-9	Terpinolene	ACTIVE
5989-27-5	(+)-Limonene	ACTIVE
6753-98-6	α-Humulene	ACTIVE
		(Contd. on page 13

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	(Cantal from page 1
7787-20-4 1,3,3 - Trimethylnorbornan - 2 - one	(Contd. from page 1. ACTIVE
8000-41-7 Terpineol	ACTIVE
· Hazardous Air Pollutants	
67-56-1 Methanol	
· Proposition 65	
· Chemicals known to cause cancer:	
89-82-7 (R)-(+)-Pulegone	
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:	
67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
80-56-8 α-Pinene	A <sup>2</sup>
127-91-3 (−)-β-Pinene	A <sup>2</sup>
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carr	ried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 05/03/2023
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

 ${\bf EINECS: European\ Inventory\ of\ Existing\ Commercial\ Chemical\ Substances}$ 

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, ÉU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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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
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\* Data compared to the previous version altered.