

## 1 Identification

- **Product identifier**
- **Product Name:** Canadian Cannabis Residual Solvent Mix 1
- **Part Name:** CAN-CAN-RS-1
- **Application of the substance / the mixture** Certified Reference Material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Spex CertiPrep, LLC.  
203 Norcross Ave, Metuchen,  
NJ 08840 USA  
732-549-7144  
USMet-CRMSales@antylia.com
- **Information department:** product safety department
- **Emergency telephone number:**  
Emergency Phone Number (24 hours)  
CHEMTREC (800-424-9300)  
Outside US: 703-527-3887

## 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 - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Carcinogenicity 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Single Exposure 1

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

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
methanol  
ethanol

- **Hazard statements**  
H225 Highly flammable liquid and vapor.  
H331 Toxic if inhaled.  
H350 May cause cancer.  
H370 Causes damage to the central nervous system and the visual organs.
- **Precautionary statements**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.

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- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **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:**

67-56-1	methanol	97.5%
64-17-5	ethanol	0.1%
1634-04-4	Methyl-tert-butyl ether	0.1%

**· Chemical identification of the substance/preparation**

60-29-7	diethyl ether	0.1%
64-19-7	acetic acid	0.1%
67-63-0	isopropyl alcohol	0.1%
67-64-1	acetone	0.1%
67-68-5	dimethyl sulfoxide	0.1%
71-23-8	propan-1-ol	0.1%
71-36-3	butan-1-ol	0.1%
71-41-0	Amyl alcohol	0.1%
78-83-1	2-methylpropan-1-ol	0.1%
78-92-2	butanol	0.1%
78-93-3	butanone	0.1%
79-20-9	methyl acetate	0.1%
100-66-3	anisole	0.1%
108-21-4	isopropyl acetate	0.1%
109-60-4	propyl acetate	0.1%
109-66-0	pentane	0.1%
109-94-4	ethyl formate	0.1%
110-19-0	isobutyl acetate	0.1%
121-44-8	triethylamine	0.1%
123-51-3	Isoamyl alcohol	0.1%
123-86-4	n-butyl acetate	0.1%
141-78-6	ethyl acetate	0.1%
142-82-5	heptane	0.1%

**4 First-aid measures**

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.

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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 give anything to eat or drink - Do not induce vomiting

**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.

**Special hazards arising from the substance or mixture** During 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:**

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 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:**

67-56-1	methanol	530 ppm
60-29-7	diethyl ether	500 ppm
64-17-5	ethanol	1,800 ppm
64-19-7	acetic acid	5 ppm
67-63-0	isopropyl alcohol	400 ppm
67-64-1	acetone	200 ppm
67-68-5	dimethyl sulfoxide	150 ppm
71-23-8	propan-1-ol	250 ppm
71-36-3	butan-1-ol	60 ppm
78-83-1	2-methylpropan-1-ol	150 ppm
78-92-2	butanol	150 ppm
78-93-3	butanone	200 ppm
79-20-9	methyl acetate	250 ppm
100-66-3	anisole	1.6 mg/m <sup>3</sup>
108-21-4	isopropyl acetate	200 ppm
109-60-4	propyl acetate	250 ppm
109-66-0	pentane	3000* ppm
109-94-4	ethyl formate	100 ppm
110-19-0	isobutyl acetate	450 ppm
121-44-8	triethylamine	1 ppm
123-51-3	Isoamyl alcohol	125 ppm
123-86-4	n-butyl acetate	5 ppm
141-78-6	ethyl acetate	1,200 ppm
142-82-5	heptane	500 ppm
1634-04-4	Methyl-tert-butyl ether	50 ppm

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· PAC-2:		
67-56-1	methanol	2,100 ppm
60-29-7	diethyl ether	3200* ppm
64-17-5	ethanol	3300* ppm
64-19-7	acetic acid	35 ppm
67-63-0	isopropyl alcohol	2000* ppm
67-64-1	acetone	3200* ppm
67-68-5	dimethyl sulfoxide	290 ppm
71-23-8	propan-1-ol	670 ppm
71-36-3	butan-1-ol	800 ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm
78-92-2	butanol	220 ppm
78-93-3	butanone	2700* ppm
79-20-9	methyl acetate	1,700 ppm
100-66-3	anisole	18 mg/m <sup>3</sup>
108-21-4	isopropyl acetate	2700* ppm
109-60-4	propyl acetate	1,300 ppm
109-66-0	pentane	33000*** ppm
109-94-4	ethyl formate	1,300 ppm
110-19-0	isobutyl acetate	1300* ppm
121-44-8	triethylamine	170 ppm
123-51-3	Isoamyl alcohol	1700* ppm
123-86-4	n-butyl acetate	200 ppm
141-78-6	ethyl acetate	1,700 ppm
142-82-5	heptane	830 ppm
1634-04-4	Methyl-tert-butyl ether	570 ppm

· PAC-3:		
67-56-1	methanol	7200* ppm
60-29-7	diethyl ether	19000*** ppm
64-17-5	ethanol	15000* ppm
64-19-7	acetic acid	250 ppm
67-63-0	isopropyl alcohol	12000** ppm
67-64-1	acetone	5700* ppm
67-68-5	dimethyl sulfoxide	1,800 ppm
71-23-8	propan-1-ol	4000* ppm
71-36-3	butan-1-ol	8000** ppm
78-83-1	2-methylpropan-1-ol	8000* ppm
78-92-2	butanol	10000** ppm
78-93-3	butanone	4000* ppm
79-20-9	methyl acetate	10000* ppm
100-66-3	anisole	110 mg/m <sup>3</sup>
108-21-4	isopropyl acetate	16000** ppm
109-60-4	propyl acetate	8000* ppm
109-66-0	pentane	200000*** ppm
109-94-4	ethyl formate	8000* ppm
110-19-0	isobutyl acetate	7500** ppm
121-44-8	triethylamine	1,000 ppm
123-51-3	Isoamyl alcohol	10000** ppm
123-86-4	n-butyl acetate	3000* ppm
141-78-6	ethyl acetate	10000** ppm
142-82-5	heptane	5000* ppm
1634-04-4	Methyl-tert-butyl ether	5300* ppm

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## 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.  
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 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 item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

### 67-56-1 methanol

PEL	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

### 64-17-5 ethanol

PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1000 ppm A3

### 1634-04-4 Methyl-tert-butyl ether

TLV	Long-term value: 50 ppm A3
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· **Ingredients with biological limit values:**

### 67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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· **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.
- **Respiratory protection:**  
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

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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:** According to product specification  
**Odor:** Characteristic  
**Odour Threshold:** Not applicable.

**pH-value:** Not applicable.

**Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 64.7 °C (148.5 °F)

**Flash point:** < 23 °C (< 73.4 °F)

**Flammability (solid, gaseous):** Highly flammable.

**Ignition temperature:** 455 °C (851 °F)

**Decomposition temperature:** Not applicable.

**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:** 5.5 Vol %  
**Upper:** 44 Vol %

**Vapor pressure at 20 °C (68 °F):** 128 hPa (96 mm Hg)

**Density at 20 °C (68 °F)** 0.79119 g/cm<sup>3</sup> (6.60248 lbs/gal)

**Relative density** Not applicable.

**Vapor density** Not applicable.

**Evaporation rate** Not applicable.

**Solubility in / Miscibility with**

**Water:** Fully miscible.

**Partition coefficient (n-octanol/water):** Not applicable.

**Viscosity:**

**Dynamic:** Not applicable.  
**Kinematic:** Not applicable.

**Solvent content:**

**Organic solvents:** 99.9 %  
**VOC content:** 99.70 %

**Solids content:** 0.0 %

**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.

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- **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:**
- | 67-56-1 methanol |      |                       |
|------------------|------|-----------------------|
| Oral             | LD50 | 5,628 mg/kg (rat)     |
| Dermal           | LD50 | 15,800 mg/kg (rabbit) |
- **Primary irritant effect:**
  - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Toxic
  - **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
64-17-5	ethanol	1
67-63-0	isopropyl alcohol	3
1634-04-4	Methyl-tert-butyl ether	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.
- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.





**14 Transport information**

· <b>UN-Number</b>	
· <b>DOT, ADR, IMDG, IATA</b>	UN1230
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Methanol
· <b>ADR</b>	1230 METHANOL
· <b>IMDG, IATA</b>	METHANOL

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· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3, 6.1
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· <b>ADR</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3+6.1
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· <b>IMDG</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3/6.1
-----	
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3 (6.1)
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· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	336
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> Not applicable.	
· <b>Transport/Additional information:</b>	
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· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· <b>UN "Model Regulation":</b>	UN 1230 METHANOL, 3 (6.1), II

**15 Regulatory information**

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

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

67-56-1	methanol
67-63-0	isopropyl alcohol

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71-36-3	butan-1-ol
78-92-2	butanol
121-44-8	triethylamine
1634-04-4	Methyl-tert-butyl ether

**TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**Hazardous Air Pollutants**

67-56-1	methanol
121-44-8	triethylamine
1634-04-4	Methyl-tert-butyl ether

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**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
64-17-5	ethanol

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

67-64-1	acetone	I
71-36-3	butan-1-ol	D
78-93-3	butanone	I
142-82-5	heptane	D

**TLV (Threshold Limit Value)**

64-17-5	ethanol	A3
67-63-0	isopropyl alcohol	A4
67-64-1	acetone	A4
71-23-8	propan-1-ol	A4
121-44-8	triethylamine	A4
1634-04-4	Methyl-tert-butyl ether	A3

**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

GHS06

GHS08

**Signal word** Danger

**Hazard-determining components of labeling:**

methanol

ethanol

**Hazard statements**

H225 Highly flammable liquid and vapor.

H331 Toxic if inhaled.

H350 May cause cancer.

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

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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

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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.*  
 P321 *Specific treatment (see on this label).*  
 P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*  
 P403+P235 *Store in a well-ventilated place. Keep cool.*  
 P405 *Store locked up.*  
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.*

· **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:** product safety department

· **Contact:**

Spex CertiPrep, LLC.  
1-732-549-7144

· **Date of preparation / last revision** 06/15/2023

· **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)

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

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Carcinogenicity 1A: Carcinogenicity – Category 1A

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1