

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/10/2019

Version Number 1

Reviewed on 04/10/2019

1 Identification

- **Product identifier**
- **Trade name:** Custom Standard (1X1 mL)
- **Part number:** CUS-23183
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to 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
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

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Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 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 INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 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)



Health = 1
 Fire = 3
 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *1
 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 components:

67-56-1	methanol	99.943%
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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:** 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.

· **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-1:**

67-56-1	methanol	530 ppm
87-65-0	2,6-dichlorophenol	8.8 mg/m ³
298-02-2	phorate (ISO)	0.0036 mg/m ³
90-43-7	biphenyl-2-ol	29 mg/m ³
59-50-7	chlorocresol	5.5 mg/m ³
95-57-8	2-chlorophenol	2.3 mg/m ³
534-52-1	DNOC	0.6 mg/m ³

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105-67-9	2,4-xylenol	6.9 mg/m ³
51-28-5	2,4-dinitrophenol	0.61 mg/m ³
120-83-2	2,4-dichlorophenol	0.2 ppm
88-75-5	2-nitrophenol	2.1 mg/m ³
100-02-7	4-nitrophenol	0.69 mg/m ³
87-86-5	pentachlorophenol	1 mg/m ³
95-95-4	2,4,5-trichlorophenol	2.5 mg/m ³
88-06-2	2,4,6-trichlorophenol	2.5 mg/m ³
106-48-9	4-chlorophenol	1.5 mg/m ³
98-86-2	acetophenone	30 ppm
2540-82-1	formothion (ISO)	2.1 mg/m ³
7786-34-7	mevinphos (ISO)	0.3 mg/m ³
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	1.2 mg/m ³
108-43-0	3-chlorophenol	2.1 mg/m ³
108-95-2	phenol	15 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
87-65-0	2,6-dichlorophenol	97 mg/m ³
298-02-2	phorate (ISO)	0.040 mg/m ³
90-43-7	biphenyl-2-ol	320 mg/m ³
59-50-7	chlorocresol	60 mg/m ³
95-57-8	2-chlorophenol	25 mg/m ³
534-52-1	DNOC	0.83 mg/m ³
105-67-9	2,4-xylenol	76 mg/m ³
51-28-5	2,4-dinitrophenol	6.8 mg/m ³
120-83-2	2,4-dichlorophenol	2 ppm
88-75-5	2-nitrophenol	23 mg/m ³
100-02-7	4-nitrophenol	7.6 mg/m ³
87-86-5	pentachlorophenol	15 mg/m ³
95-95-4	2,4,5-trichlorophenol	27 mg/m ³
88-06-2	2,4,6-trichlorophenol	27 mg/m ³
106-48-9	4-chlorophenol	17 mg/m ³
98-86-2	acetophenone	330 ppm
2540-82-1	formothion (ISO)	24 mg/m ³
7786-34-7	mevinphos (ISO)	4 mg/m ³
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	13 mg/m ³
108-43-0	3-chlorophenol	23 mg/m ³
108-95-2	phenol	23 ppm

PAC-3:

67-56-1	methanol	7200* ppm
87-65-0	2,6-dichlorophenol	580 mg/m ³

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298-02-2	phorate (ISO)	0.12 mg/m ³
90-43-7	biphenyl-2-ol	490 mg/m ³
59-50-7	chlorocresol	360 mg/m ³
95-57-8	2-chlorophenol	150 mg/m ³
534-52-1	DNOC	5 mg/m ³
105-67-9	2,4-xlenol	460 mg/m ³
51-28-5	2,4-dinitrophenol	16 mg/m ³
120-83-2	2,4-dichlorophenol	20 ppm
88-75-5	2-nitrophenol	140 mg/m ³
100-02-7	4-nitrophenol	46 mg/m ³
87-86-5	pentachlorophenol	150 mg/m ³
95-95-4	2,4,5-trichlorophenol	160 mg/m ³
88-06-2	2,4,6-trichlorophenol	160 mg/m ³
106-48-9	4-chlorophenol	99 mg/m ³
98-86-2	acetophenone	2000* ppm
2540-82-1	formothion (ISO)	140 mg/m ³
7786-34-7	mevinphos (ISO)	40 mg/m ³
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	78 mg/m ³
108-43-0	3-chlorophenol	140 mg/m ³
108-95-2	phenol	200 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.
- **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.

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Control parameters

Components with limit values that require monitoring at the workplace:

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

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.

Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness

Penetration time of glove material

For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Alcohol-like
Odor threshold:	Not determined.

· 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 °C (48.2 °F)

· Flammability (solid, gaseous): Not applicable.

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

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower:	5.5 Vol %
Upper:	44 Vol %

· Vapor pressure at 20 °C (68 °F): 100 hPa (75 mm Hg)

· Density at 20 °C (68 °F): 0.8 g/cm³ (6.676 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

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· Solvent content:	
Organic solvents:	100.0 %
VOC content:	99.95 %
	799.6 g/l / 6.67 lb/gal
· 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.
- **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)

Inhalative LC50/4 h 3 mg/L

67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

298-02-2 phorate (ISO)

Oral	LD50	1.6 mg/kg (rat)
Dermal	LD50	2.5 mg/kg (rat)

2104-96-3 bromophos (ISO)

Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	2,181 mg/kg (rat)
		2,181 mg/kg (rabbit)

7786-34-7 mevinphos (ISO)

Oral	LD50	3 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No 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:

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Toxic

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

576-24-9	2,3-dichlorophenol	2B
87-65-0	2,6-dichlorophenol	2B
95-77-2	3,4-dichlorophenol	2B
591-35-5	3,5-dichlorophenol	2B
90-43-7	biphenyl-2-ol	3
95-57-8	2-chlorophenol	2B
120-83-2	2,4-dichlorophenol	2B
87-86-5	pentachlorophenol	2B
58-90-2	2,3,4,6-tetrachlorophenol	2B
95-95-4	2,4,5-trichlorophenol	2B
88-06-2	2,4,6-trichlorophenol	2B
22248-79-9	tetrachlorvinphos	2B
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	3
108-95-2	phenol	3

· NTP (National Toxicology Program)

87-86-5	pentachlorophenol	R
88-06-2	2,4,6-trichlorophenol	R

· 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 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.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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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

· Not Regulated, De minimus Quantities	-
· UN-Number · DOT, IMDG, IATA	UN3021
· UN proper shipping name · DOT · IMDG · IATA	Pesticides, liquid, flammable, toxic (Methanol) PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHANOL, mevinphos (ISO)), MARINE POLLUTANT PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHANOL)
· Transport hazard class(es) · DOT	
 	
· Class · Label	3 Flammable liquids 3, 6.1
· IMDG	
  	
· Class · Label	3 Flammable liquids 3/6.1
· IATA	
 	
· Class · Label	3 Flammable liquids 3 (6.1)

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· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: 2,3,4,5-tetrachlorophenol, mevinphos (ISO) Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category · Stowage Code	Warning: Flammable liquids 336 F-E,S-D B SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHANOL), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

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

298-02-2	phorate (ISO)
95-48-7	o-cresol
534-52-1	DNOC
2540-82-1	formothion (ISO)
7786-34-7	mevinphos (ISO)
108-95-2	phenol

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

67-56-1	methanol
576-24-9	2,3-dichlorophenol
87-65-0	2,6-dichlorophenol
95-77-2	3,4-dichlorophenol
591-35-5	3,5-dichlorophenol

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90-43-7	biphenyl-2-ol
95-57-8	2-chlorophenol
95-48-7	o-cresol
108-39-4	m-cresol
106-44-5	p-cresol
534-52-1	DNOC
105-67-9	2,4-xylenol
51-28-5	2,4-dinitrophenol
120-83-2	2,4-dichlorophenol
88-75-5	2-nitrophenol
100-02-7	4-nitrophenol
87-86-5	pentachlorophenol
58-90-2	2,3,4,6-tetrachlorophenol
95-95-4	2,4,5-trichlorophenol
88-06-2	2,4,6-trichlorophenol
106-48-9	4-chlorophenol
98-86-2	acetophenone
314-40-9	bromacil
19666-30-9	3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one
7786-34-7	mevinphos (ISO)
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)
104-40-5	nonylphenol
108-43-0	3-chlorophenol
108-95-2	phenol

TSCA (Toxic Substances Control Act):

67-56-1	methanol
576-24-9	2,3-dichlorophenol
87-65-0	2,6-dichlorophenol
95-77-2	3,4-dichlorophenol
591-35-5	3,5-dichlorophenol
90-43-7	biphenyl-2-ol
59-50-7	chlorocresol
95-57-8	2-chlorophenol
95-48-7	o-cresol
108-39-4	m-cresol
106-44-5	p-cresol
534-52-1	DNOC
105-67-9	2,4-xylenol
51-28-5	2,4-dinitrophenol
120-83-2	2,4-dichlorophenol
88-75-5	2-nitrophenol

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100-02-7	4-nitrophenol
87-86-5	pentachlorophenol
58-90-2	2,3,4,6-tetrachlorophenol
95-95-4	2,4,5-trichlorophenol
88-06-2	2,4,6-trichlorophenol
106-48-9	4-chlorophenol
98-86-2	acetophenone
140-66-9	4-tert-octylphenol
1806-26-4	4-Octylphenol
104-40-5	nonylphenol
108-43-0	3-chlorophenol
108-95-2	phenol
90-00-6	2-ethylphenol
527-60-6	2,4,6-trimethylphenol

· Proposition 65
· Chemicals known to cause cancer:

90-43-7	biphenyl-2-ol
87-86-5	pentachlorophenol
88-06-2	2,4,6-trichlorophenol
19666-30-9	3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one
22248-79-9	tetrachlorvinphos
32809-16-8	procymidone

· 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
19666-30-9	3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one

· Carcinogenic categories
· EPA (Environmental Protection Agency)

95-48-7	o-cresol	C
108-39-4	m-cresol	C
106-44-5	p-cresol	C
87-86-5	pentachlorophenol	L
88-06-2	2,4,6-trichlorophenol	B2
98-86-2	acetophenone	D
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	C
108-95-2	phenol	D, I

· TLV (Threshold Limit Value established by ACGIH)

298-02-2	phorate (ISO)	A4
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87-86-5	pentachlorophenol	A3
314-40-9	bromacil	A3
7786-34-7	mevinphos (ISO)	A4
108-95-2	phenol	A4

· **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 carried out.

16 Other information

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1