

Safety Data Sheet

acc. to OSHA HCS

Revision date 08/24/2024

1 Identification

- **Product identifier**
- **Product Name:** VOC Standard (1X1 mL)
- **Part number:** DWM-710-1
- **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

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

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
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H370 Causes damage to the central nervous system and the visual organs.

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Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- 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.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 Specific treatment (see on this label).
- P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- 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	99.3928%
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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:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
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:** 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**

 · **PAC-1:**

67-56-1	methanol	530 ppm
60-29-7	diethyl ether	500 ppm
67-64-1	acetone	200 ppm

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67-72-1	hexachloroethane	3 ppm
74-88-4	methyl iodide	25 ppm
75-15-0	carbon disulphide	13 ppm
76-01-7	pentachloroethane	130 mg/m ³
78-93-3	butanone	200 ppm
79-46-9	2-nitropropane	30 ppm
80-62-6	methyl methacrylate	17 ppm
96-33-3	methyl acrylate	6 ppm
97-63-2	ethyl methacrylate	5.5 ppm
98-95-3	nitrobenzene	3 ppm
107-05-1	3-chloropropene	2.8 ppm
107-12-0	propionitrile	0.27 ppm
107-13-1	acrylonitrile	0.15 ppm
107-14-2	chloroacetonitrile	0.45 ppm
108-10-1	4-methylpentan-2-one	75 ppm
109-69-3	1-chlorobutane	4.1 ppm
109-99-9	tetrahydrofuran	100 ppm
110-57-6	trans-2,3-dichlorobut-2-ene	0.078 ppm
126-98-7	methacrylonitrile	0.091 ppm
591-78-6	hexan-2-one	10 ppm
1634-04-4	tert-butyl methyl ether	50 ppm

· PAC-2:

67-56-1	methanol	2,100 ppm
60-29-7	diethyl ether	3200* ppm
67-64-1	acetone	3200* ppm
67-72-1	hexachloroethane	36 ppm
74-88-4	methyl iodide	50 ppm
75-15-0	carbon disulphide	160 ppm
76-01-7	pentachloroethane	730 mg/m ³
78-93-3	butanone	2700* ppm
79-46-9	2-nitropropane	380 ppm
80-62-6	methyl methacrylate	120 ppm
96-33-3	methyl acrylate	170 ppm
97-63-2	ethyl methacrylate	61 ppm
98-95-3	nitrobenzene	20 ppm
107-05-1	3-chloropropene	54 ppm
107-12-0	propionitrile	3.0 ppm
107-13-1	acrylonitrile	1.7 ppm
107-14-2	chloroacetonitrile	5.0 ppm
108-10-1	4-methylpentan-2-one	500 ppm
109-69-3	1-chlorobutane	57 ppm

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109-99-9	tetrahydrofuran	500 ppm
110-57-6	trans-2,3-dichlorobut-2-ene	0.86 ppm
126-98-7	methacrylonitrile	1.0 ppm
591-78-6	hexan-2-one	830 ppm
1634-04-4	tert-butyl methyl ether	570 ppm

· PAC-3:

67-56-1	methanol	7200* ppm
60-29-7	diethyl ether	19000*** ppm
67-64-1	acetone	5700* ppm
67-72-1	hexachloroethane	300 ppm
74-88-4	methyl iodide	125 ppm
75-15-0	carbon disulphide	480 ppm
76-01-7	pentachloroethane	1,200 mg/m ³
78-93-3	butanone	4000* ppm
79-46-9	2-nitropropane	2,300 ppm
80-62-6	methyl methacrylate	570 ppm
96-33-3	methyl acrylate	1,000 ppm
97-63-2	ethyl methacrylate	370 ppm
98-95-3	nitrobenzene	200 ppm
107-05-1	3-chloropropene	140 ppm
107-12-0	propionitrile	9.1 ppm
107-13-1	acrylonitrile	28 ppm
107-14-2	chloroacetonitrile	15 ppm
108-10-1	4-methylpentan-2-one	3000* ppm
109-69-3	1-chlorobutane	340 ppm
109-99-9	tetrahydrofuran	5000* ppm
110-57-6	trans-2,3-dichlorobut-2-ene	3.8 ppm
126-98-7	methacrylonitrile	3.1 ppm
591-78-6	hexan-2-one	5000* ppm
1634-04-4	tert-butyl methyl ether	5300* 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.

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- **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 section 7.
- **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: 250 ppm
	Long-term value: 200 ppm
	Skin; BEIc

 · **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.
- **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.

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- **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

- **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):** Highly flammable.

- **Auto igniting:** 455 °C (851 °F)

- **Decomposition temperature:** Not determined.

- **Ignition temperature:** Product is not selfigniting.

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

- **Explosion limits:**

- Lower:** 5.5 Vol %

- Upper:** 44 Vol %

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

- **Density at 20 °C (68 °F):** 0.80167 g/cm³ (6.68994 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- Water:** Not miscible or difficult to mix.

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

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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.6 %
VOC content:	99.57 %
	798.2 g/l / 6.66 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 | 3.02 mg/L

67-56-1 methanol

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

- **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:
Toxic

- **Carcinogenic categories**

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

67-72-1	hexachloroethane	2B
74-88-4	methyl iodide	3
76-01-7	pentachloroethane	3
79-46-9	2-nitropropane	2B

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80-62-6	methyl methacrylate	3
96-33-3	methyl acrylate	2B
98-95-3	nitrobenzene	2B
107-05-1	3-chloropropene	3
107-13-1	acrylonitrile	2B
107-14-2	chloroacetonitrile	3
108-10-1	4-methylpentan-2-one	2B
109-99-9	tetrahydrofuran	2B
110-57-6	trans-2,3-dichlorobut-2-ene	3
1634-04-4	tert-butyl methyl ether	3

· NTP (National Toxicology Program)

67-72-1	hexachloroethane	R
79-46-9	2-nitropropane	R
98-95-3	nitrobenzene	R
107-13-1	acrylonitrile	R

· OSHA-Ca (Occupational Safety & Health Administration)

107-13-1	acrylonitrile	
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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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· Not Regulated, De minimis Quantities	-
· UN-Number	UN1230
· DOT, IMDG, IATA	UN1230
· UN proper shipping name	
· DOT	Methanol solution
· IMDG, IATA	METHANOL solution
· Transport hazard class(es)	
· DOT	
 	
· Class	3 Flammable liquids
· Label	3, 6.1
· IMDG	
 	
· Class	3 Flammable liquids
· Label	3/6.1
· IATA	
 	
· Class	3 Flammable liquids
· Label	3 (6.1)
· Packing group	II
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	336
· EMS Number:	F-E,S-D
· Stowage Category	B
· 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

· UN "Model Regulation":

UN 1230 METHANOL SOLUTION, 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 355 (extremely hazardous substances):

75-15-0	carbon disulphide
98-95-3	nitrobenzene
107-12-0	propionitrile
107-13-1	acrylonitrile
110-57-6	trans-2,3-dichlorobut-2-ene
126-98-7	methacrylonitrile

· Section 313 (Specific toxic chemical listings):

67-56-1	methanol
67-72-1	hexachloroethane
74-88-4	methyl iodide
75-15-0	carbon disulphide
76-01-7	pentachloroethane
79-46-9	2-nitropropane
80-62-6	methyl methacrylate
96-33-3	methyl acrylate
98-95-3	nitrobenzene
107-05-1	3-chloropropene
107-13-1	acrylonitrile
108-10-1	4-methylpentan-2-one
110-57-6	trans-2,3-dichlorobut-2-ene
126-98-7	methacrylonitrile
1634-04-4	tert-butyl methyl ether

· TSCA (Toxic Substances Control Act):

67-56-1	methanol	ACTIVE
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60-29-7	diethyl ether	ACTIVE
67-64-1	acetone	ACTIVE
67-72-1	hexachloroethane	ACTIVE
74-88-4	methyl iodide	ACTIVE
75-15-0	carbon disulphide	ACTIVE
76-01-7	pentachloroethane	ACTIVE
78-93-3	butanone	ACTIVE
79-46-9	2-nitropropane	ACTIVE
80-62-6	methyl methacrylate	ACTIVE
96-33-3	methyl acrylate	ACTIVE
97-63-2	ethyl methacrylate	ACTIVE
98-95-3	nitrobenzene	ACTIVE
107-05-1	3-chloropropene	ACTIVE
107-12-0	propionitrile	ACTIVE
107-13-1	acrylonitrile	ACTIVE
107-14-2	chloroacetonitrile	ACTIVE
108-10-1	4-methylpentan-2-one	ACTIVE
109-69-3	1-chlorobutane	ACTIVE
109-99-9	tetrahydrofuran	ACTIVE
110-57-6	trans-2,3-dichlorobut-2-ene	ACTIVE
126-98-7	methacrylonitrile	ACTIVE
591-78-6	hexan-2-one	ACTIVE
1634-04-4	tert-butyl methyl ether	ACTIVE

· Hazardous Air Pollutants

67-56-1	methanol
67-72-1	hexachloroethane
74-88-4	methyl iodide
75-15-0	carbon disulphide
79-46-9	2-nitropropane
80-62-6	methyl methacrylate
98-95-3	nitrobenzene
107-05-1	3-chloropropene
107-13-1	acrylonitrile
108-10-1	4-methylpentan-2-one
1634-04-4	tert-butyl methyl ether

· Proposition 65
· Chemicals known to cause cancer:

67-72-1	hexachloroethane
74-88-4	methyl iodide
79-46-9	2-nitropropane
96-33-3	methyl acrylate

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98-95-3	nitrobenzene
107-13-1	acrylonitrile
108-10-1	4-methylpentan-2-one
109-99-9	tetrahydrofuran

· Chemicals known to cause reproductive toxicity for females:

75-15-0	carbon disulphide
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· Chemicals known to cause reproductive toxicity for males:

75-15-0	carbon disulphide
98-95-3	nitrobenzene
591-78-6	hexan-2-one

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
75-15-0	carbon disulphide
108-10-1	4-methylpentan-2-one
591-78-6	hexan-2-one

· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1	acetone	I
67-72-1	hexachloroethane	L
78-93-3	butanone	I
80-62-6	methyl methacrylate	E, NL
96-33-3	methyl acrylate	D
98-95-3	nitrobenzene	L
107-05-1	3-chloropropene	C
107-13-1	acrylonitrile	B1
108-10-1	4-methylpentan-2-one	I
109-69-3	1-chlorobutane	D
109-99-9	tetrahydrofuran	SC
591-78-6	hexan-2-one	II

· TLV (Threshold Limit Value)

67-64-1	acetone	A4
67-72-1	hexachloroethane	A3
75-15-0	carbon disulphide	A4
79-46-9	2-nitropropane	A3
80-62-6	methyl methacrylate	A4
96-33-3	methyl acrylate	A4
98-95-3	nitrobenzene	A3
107-05-1	3-chloropropene	A3
107-13-1	acrylonitrile	A3
109-99-9	tetrahydrofuran	A3
1634-04-4	tert-butyl methyl ether	A3

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

67-72-1	hexachloroethane
74-88-4	methyl iodide
79-46-9	2-nitropropane
107-13-1	acrylonitrile

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Contact:**· **Date of preparation / last revision** 08/24/2024 / 3· **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

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

· *** Data compared to the previous version altered.**