

Safety Data Sheet

acc. to OSHA HCS

Revision date: 06/25/2025

1 Identification

- **Product identifier**
- **Product Name:** Glycols/Acetates Mix, 1000 ug/mL, in Acetone (1X10 mL)
- **Part no. :** ITA-27
- **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.



GHS08 Health hazard

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.



GHS07

Eye Irritation 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3

H336 May cause drowsiness or dizziness.

- **Label elements**

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

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

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

acetone
 2-ethoxyethanol
 1-methoxy-2-propanol
 2-methoxyethanol

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· Hazard statements

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.
- H336 May cause drowsiness or dizziness.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P261 Avoid breathing vapours.
- 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.
- P271 Use only outdoors or in a well-ventilated area.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

67-64-1	acetone	97.9776%
107-98-2	1-methoxy-2-propanol	0.1264%
109-86-4	2-methoxyethanol	0.1264%
110-49-6	2-methoxyethyl acetate	0.1264%
110-80-5	2-ethoxyethanol	0.1264%
111-15-9	2-ethoxyethyl acetate	0.1264%
111-76-2	2-butoxyethanol	0.1264%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, 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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
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.

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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.

· Protective Action Criteria for Chemicals
· PAC-1:

67-64-1	acetone	200 ppm
57-55-6	Propylene glycol	30 mg/m ³
107-21-1	ethanediol	50 ppm
107-88-0	1,3-butanediol	120 mg/m ³
107-98-2	1-methoxy-2-propanol	100 ppm
109-86-4	2-methoxyethanol	0.3 ppm
110-49-6	2-methoxyethyl acetate	0.3 ppm
110-80-5	2-ethoxyethanol	15 ppm
111-15-9	2-ethoxyethyl acetate	15 ppm
111-46-6	2,2'-oxybisethanol	6.9 ppm
111-76-2	2-butoxyethanol	60 ppm
111-90-0	diethylene glycol monoethyl ether	75 ppm
112-27-6	triethylene glycol	130 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol	200 mg/m ³
504-63-2	1,3-propanediol	7.8 mg/m ³
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm

· PAC-2:

67-64-1	acetone	3200* ppm
57-55-6	Propylene glycol	1,300 mg/m ³
107-21-1	ethanediol	400 ppm
107-88-0	1,3-butanediol	1,300 mg/m ³
107-98-2	1-methoxy-2-propanol	160 ppm
109-86-4	2-methoxyethanol	14 ppm
110-49-6	2-methoxyethyl acetate	670 ppm
110-80-5	2-ethoxyethanol	1,000 ppm
111-15-9	2-ethoxyethyl acetate	420 ppm
111-46-6	2,2'-oxybisethanol	140 ppm
111-76-2	2-butoxyethanol	120 ppm
111-90-0	diethylene glycol monoethyl ether	100 ppm
112-27-6	triethylene glycol	1,400 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol	220 mg/m ³
504-63-2	1,3-propanediol	86 mg/m ³
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm

· PAC-3:

67-64-1	acetone	5700* ppm
57-55-6	Propylene glycol	7,900 mg/m ³

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107-21-1	ethanediol	670 ppm
107-88-0	1,3-butanediol	4,500 mg/m ³
107-98-2	1-methoxy-2-propanol	660 ppm
109-86-4	2-methoxyethanol	2000* ppm
110-49-6	2-methoxyethyl acetate	4000* ppm
110-80-5	2-ethoxyethanol	6000* ppm
111-15-9	2-ethoxyethyl acetate	2500* ppm
111-46-6	2,2'-oxybisethanol	860 ppm
111-76-2	2-butoxyethanol	700 ppm
111-90-0	diethylene glycol monoethyl ether	450 ppm
112-27-6	triethylene glycol	4,400 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol	1300 mg/m ³
504-63-2	1,3-propanediol	520 mg/m ³
34590-94-8	Dipropylene glycol monomethyl ether	9900** 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 section 7.
- **Control parameters**

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

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
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REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm A4, BEI
107-98-2 1-methoxy-2-propanol	
REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm Long-term value: 184 mg/m ³ , 50 ppm A4
109-86-4 2-methoxyethanol	
PEL	Long-term value: 80 mg/m ³ , 25 ppm Skin
REL	Long-term value: 0.3 mg/m ³ , 0.1 ppm Skin
TLV	Long-term value: 0.3 mg/m ³ , 0.1 ppm Skin; BEI
WEEL	Skin; B
110-49-6 2-methoxyethyl acetate	
PEL	Long-term value: 120 mg/m ³ , 25 ppm Skin
REL	Long-term value: 0.5 mg/m ³ , 0.1 ppm Skin
TLV	Long-term value: 0.5 mg/m ³ , 0.1 ppm Skin; BEI
WEEL	Skin; B
110-80-5 2-ethoxyethanol	
PEL	Long-term value: 740 mg/m ³ , 200 ppm Skin
REL	Long-term value: 1.8 mg/m ³ , 0.5 ppm Skin
TLV	Long-term value: 18 mg/m ³ , 5 ppm Skin; BEI
111-15-9 2-ethoxyethyl acetate	
PEL	Long-term value: 540 mg/m ³ , 100 ppm Skin
REL	Long-term value: 2.7 mg/m ³ , 0.5 ppm Skin
TLV	Long-term value: 27 mg/m ³ , 5 ppm Skin; BEI
111-76-2 2-butoxyethanol	
PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin

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REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI, A3

· **Ingredients with biological limit values:**

67-64-1 acetone

BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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109-86-4 2-methoxyethanol

BEI	1 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: 2-Methoxyacetic acid
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110-49-6 2-methoxyethyl acetate

BEI	1 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: 2-Methoxyacetic acid
-----	--

110-80-5 2-ethoxyethanol

BEI	40 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: 2-Ethoxyacetic acid
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111-15-9 2-ethoxyethyl acetate

BEI	41 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: 2-Ethoxyacetic acid
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111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid (BAA) (with hydrolysis)
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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.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **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

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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

· **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:	Characteristic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/Melting range:	-94.7 °C (-138.5 °F)
· Boiling point/Boiling range:	55 °C (131 °F)

· **Flash point:** -17 °C (1.4 °F)

· **Flammability:** Highly flammable.

· **Auto igniting:** 465 °C (869 °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:	2.6 Vol %
· Upper:	13 Vol %

· **Vapor pressure at 20 °C (68 °F):** 245.3 hPa (184 mm Hg)

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· Density at 20 °C (68 °F):	0.80392 g/cm ³ (6.70871 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.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.6 %
VOC content:	1.64 %
	13.2 g/l / 0.11 lb/gal
· 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)

Dermal	LD50	316,456 mg/kg (rab)
Inhalative	LC50/4 h	1,520 mg/L

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

107-98-2 1-methoxy-2-propanol

Oral	LD50	5,300 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	54.6 mg/L (rat)

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Product Name: Glycols/Acetates Mix, 1000 ug/mL, in Acetone (1X10 mL)

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109-86-4 2-methoxyethanol

Oral	LD50	2,460 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat) 2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>12.4 mg/L (rat)

110-49-6 2-methoxyethyl acetate

Oral	LD50	2,900 mg/kg (rat)
Dermal	LD50	5,250 mg/kg (rabbit)

110-80-5 2-ethoxyethanol

Oral	LD50	1,746 mg/kg (rat)
Dermal	LD50	3,300 mg/kg (rat) 3,300 mg/kg (rabbit)
Inhalative	LC50/4 h	15.2 mg/L (rat)

111-15-9 2-ethoxyethyl acetate

Oral	LD50	2,700 mg/kg (rat)
Dermal	LD50	10,300 mg/kg (rabbit)

111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE) 615 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab) 405 mg/kg (rabbit)
Inhalative	LC50/4 h	3 mg/L (ATE) 2.2 mg/L (rat)

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

· on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· Carcinogenic categories
· IARC (International Agency for Research on Cancer)

111-76-2 2-butoxyethanol

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.

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- **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.


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

- | | |
|--|--------------------------------------|
| · UN-Number
· DOT, IMDG, IATA | UN1090 |
| · UN proper shipping name
· DOT
· IMDG, IATA | Acetone solution
ACETONE solution |
| · Transport hazard class(es)

· DOT

 | 3 Flammable liquids
3 |
| · IMDG, IATA

 | 3 Flammable liquids
3 |
| · Packing group
· DOT, IMDG, IATA | II |

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· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· 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: 5 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 1090 ACETONE SOLUTION, 3, 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):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

107-21-1	ethanediol
109-86-4	2-methoxyethanol
110-49-6	2-methoxyethyl acetate
110-80-5	2-ethoxyethanol
111-15-9	2-ethoxyethyl acetate
111-76-2	2-butoxyethanol
111-90-0	diethylene glycol monoethyl ether
112-34-5	2-(2-butoxyethoxy)ethanol

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

107-21-1	ethanediol
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Proposition 65
Chemicals known to cause cancer:

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

109-86-4 2-methoxyethanol

110-49-6 2-methoxyethyl acetate

110-80-5 2-ethoxyethanol

111-15-9 2-ethoxyethyl acetate

· Chemicals known to cause developmental toxicity:

107-21-1 ethanediol

109-86-4 2-methoxyethanol

110-49-6 2-methoxyethyl acetate

110-80-5 2-ethoxyethanol

111-15-9 2-ethoxyethyl acetate

· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1 acetone

I

111-76-2 2-butoxyethanol

NL

· TLV (Threshold Limit Value)

67-64-1 acetone

A4

107-21-1 ethanediol

A4

111-76-2 2-butoxyethanol

A3

· 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

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.

· Department issuing SDS: Document Control / Regulatory

· Contact: pdl-acg-regulatory-cq@agilent.com

· Date of preparation / last revision 06/25/2025 / 4

· 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

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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

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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

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