## SAFETY DATA SHEET



#### Polyethylene glycol Standard

### **Section 1. Identification**

GHS product identifier Part no.

- : Polyethylene glycol Standard
- : PL2070-2001, PL2070-2005, PL2070-2010, PL2070-3001, PL2070-3005, PL2070-3010, PL2070-4001, PL2070-4005, PL2070-4010, PL2070-5001, PL2070-5005, PL2070-5010, PL2070-6001, PL2070-6005, PL2070-6010, PL2070-7001, PL2070-7005, PL2070-7010, PL2070-8001, PL2070-8005, PL2070-8010, PL2070-9001, PL2071-0010, PL2071-0001, PL2071-0005, PL2071-1010, PL2071-1001, PL2071-1005, PL2071-2010, PL2071-2001, PL2071-2005, PL2071-3010, PL2071-3001, PL2071-3005

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

 Reagents and Standards for Analytical Chemistry Laboratory Use PL2070-2001 PEG nominal Mp 194 1 g

PL2070-2005 PEG nominal Mp 194 5 g PEG nominal Mp 194 PL2070-2010 10 q PL2070-3001 PEG nominal Mp 400 1 g PL2070-3005 PEG nominal Mp 400 5 g PL2070-3010 PEG nominal Mp 400 10 g PL2070-4001 PEG nominal Mp 600 1 g PL2070-4005 PEG nominal Mp 600 5 g PL2070-4010 PEG nominal Mp 600 10 g PL2070-5001 PEG nominal Mp 1k 1 g PL2070-5005 PEG nominal Mp 1k 5 g PEG nominal Mp 1k PL2070-5010 10 g PL2070-6001 PEG nominal Mp 1.5k 1 g PEG nominal Mp 1.5k 5 g PL2070-6005 PEG nominal Mp 1.5k PL2070-6010 10 g PL2070-7001 PEG nominal Mp 4k 1 g PEG nominal Mp 4k PL2070-7005 5 g PEG nominal Mp 4k PL2070-7010 10 g 1 g PEG nominal Mp 7k PL2070-8001 PEG nominal Mp 7k 5 g PL2070-8005 PEG nominal Mp 7k PL2070-8010 10 g PL2070-9001 PEG nominal Mp 10k 1 g PL2070-9005 PEG nominal Mp 10k 5 g PL2070-9010 PEG nominal Mp 10k 10 g PL2071-0010 PEG nominal Mp 13k 10 g PL2071-0001 PEG nominal Mp 13k 1 g PL2071-0005 PEG nominal Mp 13k 5 g PL2071-1010 PEG nominal Mp 20k 10 g PL2071-1001 PEG nominal Mp 20k 1 g PL2071-1005 PEG nominal Mp 20k 5 g PL2071-2010 PEG nominal Mp 238 10 q PL2071-2001 PEG nominal Mp 238 1 g PL2071-2005 PEG nominal Mp 238 5 g PEG nominal Mp 282 PL2071-3010 10 g PL2071-3001 PEG nominal Mp 282 1 g PL2071-3005 PEG nominal Mp 282 5 g

#### Supplier/Manufacturer

: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770 Polyethylene glycol Standard

### **Section 1. Identification**

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

#### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

COMBUSTIBLE DUSTS

**GHS label elements** 

Signal word : Warning

**Hazard statements**: May form combustible dust concentrations in air.

**Precautionary statements** 

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

Supplemental label

elements

: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Prevent dust accumulation.

Other hazards

Hazards not otherwise

classified

: None known.

Hazards identified when

used

: No known significant effects or critical hazards.

## Section 3. Composition/information on ingredients

Substance/mixture : Substance

Ingredient name	Synonyms	%	Identifiers
Foly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	Polyethylene glycol	100	CAS: 25322-68-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact : Immediately flush eyes with

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

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#### Section 4. First aid measures

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the nose, throat and lungs.

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

irritation redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical powder.

Unsuitable extinguishing

media

 Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Specific hazards arising from the chemical

: May form explosible dust-air mixture if dispersed.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

spray to keep lire-exposed contain

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

#### For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### Methods for cleaning up

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	OARS WEEL (United States, 9/2024) TWA 8 hours: 10 mg/m³.

#### **Biological exposure indices**

No exposure indices known.

## Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

#### Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Physical state : Solid. [Powder.]

Color : White.

Odor : Odorless.

Odor threshold : Not available.

pH : ₹.78 [OECD 122]

Melting point/freezing point : 58°C (136.4°F)

Boiling point or initial : 250°C (482°F)

Boiling point or initial boiling point and boiling

range

Flash point : Closed cup: 171 to 235°C (339.8 to 455°F)

Open cup: 199 to 238°C (390.2 to 460.4°F)

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not applicable.

limit/flammability limit

Vapor pressure : 0 kPa (0 mm Hg)
Relative vapor density : Not applicable.

Relative density : 1.13

**Density** : 1.13 g/cm³ [OECD 109]

Solubility(ies) : Media Result water Soluble

Solubility in water : 620 g/l [OECD 105]

Partition coefficient: n-

octanol/water

. p.\_

**Auto-ignition temperature** : 360°C (680°F) **Decomposition temperature** : Not available.

Viscosity: Dynamic (room temperature): Not available. [OECD 114]
Kinematic (room temperature): Not available. [OECD 114]

Kinematic (40°C (104°F)): 191.672 mm<sup>2</sup>/s (191.672 cSt) [OECD 114]

**Particle characteristics** 

Median particle size : Not available.

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid the creation of dust when handling and avoid all possible sources of ignition

(spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust

accumulation.

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## Section 10. Stability and reactivity

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

**Conclusion/Summary** 

[Product]

: Not available.

#### Skin corrosion/irritation

Product/ingredient name Result

Poly(oxy-1,2-ethanediyl),α-hydro-ωhydroxy- Ethane-1,2-diol, ethoxylated Rabbit - Skin - Mild irritant

Duration of treatment/ exposure: 24 hours

Rabbit - Skin - Mild irritant Rabbit - Skin - Mild irritant

Duration of treatment/ exposure: 24 hours

Rabbit - Skin - Mild irritant

Rabbit - Skin - Mild irritant

Conclusion/Summary

[Product]

: May cause skin irritation.

#### Serious eye damage/eye irritation

Result

Foly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated

Rabbit - Eyes - Mild irritant

Rabbit - Eyes - Mild irritant

exposure: 24 hours
Duration of treatment/
exposure: 24 hours

Duration of treatment/

Rabbit - Eyes - Mild irritant Rabbit - Eyes - Mild irritant

**Conclusion/Summary** 

[Product]

: May cause eye irritation.

#### Respiratory corrosion/irritation

Product/ingredient name

**Conclusion/Summary** 

: May cause respiratory irritation.

[Product]

#### Respiratory or skin sensitization

Skin

**Conclusion/Summary** 

: Not available.

[Product]

Respiratory
Conclusion/Summary

: Not available.

[Product]

Germ cell mutagenicity

**Conclusion/Summary** 

: Not available.

[Product]

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## **Section 11. Toxicological information**

#### Carcinogenicity

Not available.

Conclusion/Summary

[Product]

: Not available.

Reproductive toxicity

**Conclusion/Summary** 

[Product]

: Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the nose, throat and lungs.

**Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

> irritation redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** : No specific data. Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

**Potential immediate** : Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

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## **Section 11. Toxicological information**

#### Potential chronic health effects

Conclusion/Summary

[Product]

: Not available.

**General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	( 5	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Foly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A

## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name

Result

Poly(oxy-1,2-ethanediyl),α-hydro-ω-

Acute - LC50 - Fresh water

>1000 mg/l [96 hours]

hydroxy- Ethane-1,2-diol, ethoxylated

Acute - EC50 - Fresh water

>100 mg/l [48 hours]

Aerobic - 4 mg/l

**Conclusion/Summary** 

[Product]

: Not available.

#### Persistence and degradability

Product/ingredient name

Result

Poly(oxy-1,2-ethanediyl),α-hydro-ω-OECD [Ready 74.85% [28 days] -

hydroxy- Ethane-1,2-diol, ethoxylated Biodegradability - Closed Readily

Bottle Test]

**Conclusion/Summary** 

[Product]

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Foly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Foly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	0.2	3.2	Low

#### **Mobility in soil**

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## Section 12. Ecological information

Soil/Water partition coefficient

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

DOT / TDG / Mexico / IMDG / : Not regulated. **IATA** 

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not available. to IMO instruments

## Section 15. Regulatory information

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

**U.S. Federal regulations** 

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

: Not listed

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

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## **Section 15. Regulatory information**

#### **SARA 311/312**

Classification : COMBUSTIBLE DUSTS

#### **Composition/information on ingredients**

Name	%	Classification
Poly(oxy-1,2-ethanediyl),α-hydro- ω-hydroxy- Ethane-1,2-diol, ethoxylated	100	COMBUSTIBLE DUSTS

#### **State regulations**

Massachusetts: This material is not listed.New York: This material is not listed.New Jersey: This material is not listed.Pennsylvania: This material is not listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

**Viet Nam** 

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Japan : Japan inventory (CSCL): This material is listed or exempted.

Japan inventory (ISHL): This material is listed or exempted.

: This material is listed or exempted.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Thailand : This material is listed or exempted.

Turkey : This material is listed or exempted.

United States : This material is active or exempted.

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### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
COMBUSTIBLE DUSTS	On basis of test data

#### **History**

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revision

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

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BCF = Bioconcentration Factor
DOT = Department of Transportation

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

TDG = Transportation of Dangerous Goods

UN = United Nations

Indicates information that has changed from previously issued version.

#### **Notice to reader**

Disclaimer: 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.

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