# **SAFETY DATA SHEET**



### Storage Solutions

# **Section 1. Identification**

1.1 Product identifier

Product name : Storage Solutions

Part no. : GP-435-0100, GP-440-0100

Validation date : 12/18/2024

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

Identified uses : Analytical reagent.

GP-435-0100 Storage Solution, 100 mL

GP-440-0100 Capillary Storage Solution, 100 mL

1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer**: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

### Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

H320 EYE IRRITATION - Category 2B H317 SKIN SENSITIZATION - Category 1

2.2 GHS label elements

Hazard pictograms :



Signal word : Warning

**Hazard statements** : H317 - May cause an allergic skin reaction.

H320 - Causes eye irritation.

**Precautionary statements** 

Prevention : P280 - Wear protective gloves.

P261 - Avoid breathing vapor.

Response : P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P363 - Wash contaminated clothing before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

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### Section 2. Hazards identification

2.3 Other hazards

**Hazards not otherwise** 

classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	Identifiers
<b>S</b> lycerol	≥50 - ≤75	CAS: 56-81-5
2-Methyl-2H-isothiazol-3-one	<0.1	CAS: 2682-20-4

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

# 4.1 Description of necessary first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

### Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

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

Over-exposure signs/symptoms

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### Section 4. First aid measures

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

irritation watering redness

**Inhalation** : No specific data.

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

irritation redness

**Ingestion**: No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides sulfur oxides

### 5.3 Advice for firefighters

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.

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.

### Section 6. Accidental release measures

#### 6.1 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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### Section 6. Accidental release measures

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 nonemergency personnel".

### **6.2 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).

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

#### Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

### 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. 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. 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.

#### 7.3 Specific end use(s)

Recommendations

: Industrial applications, Professional applications.

**Industrial sector specific** solutions

: Not available.

# Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limits

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### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
<b>S</b> iycerol	CAL OSHA PEL (United States, 5/2018)  TWA 8 hours: 5 mg/m³. Form: respirable fraction.  TWA 8 hours: 10 mg/m³. Form: total dust.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 15 mg/m³. Form: Total dust.  TWA 8 hours: 5 mg/m³. Form: Respirable fraction.  OSHA PEL 1989 (United States, 3/1989)  TWA 8 hours: 10 mg/m³. Form: Total dust.  TWA 8 hours: 5 mg/m³. Form: Respirable fraction.
2-Methyl-2H-isothiazol-3-one	None.

### **Biological exposure indices**

No exposure indices known.

### **8.2 Exposure controls**

Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash 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 and safety characteristics

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

**Appearance** 

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

**pH** : 8.3

Melting point/freezing point : Not available.

Boiling point or initial : Not available.

boiling point and boiling range

Flash point

	Closed cup		Open cup		cup	
Ingredient name	°C	°F	Method	°C	°F	Method
<b>Ø</b> lycerol	-	-	-	177	350.6	-

Evaporation rate
Flammability
Lower and upper explosion
limit/flammability limit

Not applicable.Not available.

: Not available.

Vapor pressure :

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>w</b> ater	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-

Relative vapor density Relative density Not available.Not available.

Yes.

Solubility(ies)

MediaResultWaterSoluble

Miscible with water

Partition coefficient: noctanol/water

**Auto-ignition temperature** 

: Not applicable.

 Ingredient name
 °C
 °F
 Method

 Ølycerol
 370
 698

**Decomposition temperature** 

Not available.

**Viscosity** 

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

**Particle characteristics** 

Median particle size : Not applicable.

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### Section 10. Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidizing materials.

10.6 Hazardous

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

### Section 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** 

Product/ingredient name Result

**6** lycerol Rat - Oral - LD50 12600 mg/kg 2-Methyl-2H-isothiazol-3-one Rat - Male, Female - Oral - LD50 285.5 mg/kg

Rat - Male, Female - Dermal - LD50 242 mg/kg

Rat - Male, Female - Inhalation - LC50 Dusts and 0.11 mg/l [4 hours]

mists

**Conclusion/Summary** 

[Product]

: Not available.

Skin corrosion/irritation

Product/ingredient name Result

**6** lycerol Rabbit - Skin - Mild irritant Duration of treatment/

exposure: 24 hours

**Conclusion/Summary** 

[Product]

: Not available.

Serious eye damage/eye irritation

Result

**6** lycerol **Duration of treatment/** Rabbit - Eyes - Mild irritant

exposure: 24 hours

**Conclusion/Summary** 

[Product]

: Not available.

**Respiratory corrosion/irritation** 

**Product/ingredient name** 

**Conclusion/Summary** 

: Not available.

[Product]

Respiratory or skin sensitization

Skin

Conclusion/Summary

: May cause skin sensitization.

[Product]

Respiratory

**Conclusion/Summary** 

: Not available.

[Product]

Germ cell mutagenicity

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### **Section 11. Toxicological information**

**Conclusion/Summary** 

[Product]

: Not available.

Carcinogenicity

Not available.

**Conclusion/Summary** 

[Product]

: Not available.

**Reproductive** toxicity

**Conclusion/Summary** 

: Not available.

[Product]

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

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**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 watering redness

**Inhalation** : No specific data.

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

irritation redness

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.

Potential chronic health effects

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## Section 11. Toxicological information

**Conclusion/Summary** 

[Product]

: Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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	- 1 all (111 <b>3</b> 1	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Sycerol 2-Methyl-2H-isothiazol-3-one	12600	N/A	N/A	N/A	N/A
	285.5	242	N/A	N/A	0.11

# **Section 12. Ecological information**

### **12.1 Toxicity**

Product/ingredient name Result

 Ølycerol
 Acute - LC50 - Fresh water
 54000 mg/l [96 hours]

 2-Methyl-2H-isothiazol-3-one
 Acute - EC50 - Fresh water
 0.18 ppm [48 hours]

 Acute - LC50 - Fresh water
 0.07 ppm [96 hours]

 Chronic - NOEC - Fresh water
 4.93 mg/l [98 days]

Chronic - NOEC - Fresh water 4.93 flig/l [96 days]
Chronic - NOEC - Fresh water 0.044 mg/l [21 days]

Conclusion/Summary

[Product]

: Not available.

### 12.2 Persistence and degradability

Product/ingredient name Result

☑ycerol Ready Biodegradability - 93% [30 days] -

**Closed Bottle Test** 

2-Methyl-2H-isothiazol-3-one Ready Biodegradability - 0% [28 days] - Not

Closed Bottle Test readily

**Conclusion/Summary** 

[Product]

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Methyl-2H-isothiazol-3-one	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
☑lycerol	-1.76	-	Low
2-Methyl-2H-isothiazol-3-one	0.119	-	Low

### 12.4 Mobility in soil

Soil/Water partition : Not available.

coefficient

**12.5 Other adverse effects** : No known significant effects or critical hazards.

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## Section 13. Disposal considerations

#### 13.1 Waste treatment methods

**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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### 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

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

**U.S. Federal regulations** 

: FSCA 5(a)2 proposed significant new use rules: 2-Methyl-2H-isothiazol-3-one

Clean Water Act (CWA) 311: triethylamine; EDTA

### TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

: Listed

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

Clean Air Act Section 602

: Not listed

Class I Substances

: Not listed

Class II Substances

Clean Air Act Section 602

: Not listed

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

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### **Section 15. Regulatory information**

DEA List II Chemicals (Essential Chemicals)

: Not listed

### **SARA 302/304**

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

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : EYE IRRITATION - Category 2B

SKIN SENSITIZATION - Category 1

#### Composition/information on ingredients

Name	%	Classification
<b>Ø</b> lycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
4-(2-Hydroxyethyl)piperazin- 1-ylethanesulphonic acid	≤10	COMBUSTIBLE DUSTS
2-Methyl-2H-isothiazol-3-one	<0.1	COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract

#### State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

**New York** : None of the components are listed.

New Jersey : The following components are listed: GLYCERIN

Pennsylvania: The following components are listed: 1,2,3-PROPANETRIOL

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**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

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### Section 15. Regulatory information

**New Zealand** : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : MI components are listed or exempted.

### Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
3 ,	Calculation method Calculation method

### **History**

Date of issue/Date of : 12/18/2024

revision

Date of previous issue : 12/07/2021

Version : 4

**Key to abbreviations** 

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

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 UN = United Nations

✓ Indicates information that has changed from previously issued version.

### **Notice to reader**

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