## SAFETY DATA SHEET



#### Acetic acid 12 percent

## **Section 1. Identification**

1.1 Product identifier

Product name : Acetic acid 12 percent

Part no. : AR307 Validation date : 2/17/2025

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

Identified uses : Laboratory use

Container type: Dispenser Pack

AR307 // Acetic Acid 12% // Artisan Colloidal Iron Stain Kit // 5 x 65 mL

Reference number: SDS281

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

Tel: +1 800 227 9770

Agilent Technologies Singapore (International) Pte Ltd.

No. 1 Yishun Avenue 7 Singapore, 768923 Tel. (65) 6276 2622

Agilent Technologies Denmark ApS

Produktionsvej 42 2600 Glostrup, Denmark

Tel. +45 44 85 95 00

www.Agilent.com

e-mail address of person responsible for this SDS

: SDS@Agilent.com

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

₩315 SKIN IRRITATION - Category 2 H319 EYE IRRITATION - Category 2A

2.2 GHS label elements

Hazard pictograms



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### Section 2. Hazards identification

Signal word : Warning

**Hazard statements** : H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

**Precautionary statements** 

Prevention : P280 - Wear protective gloves. Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

: P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off Response

contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

: Not applicable. Storage **Disposal** : Not applicable.

2.3 Other hazards

Hazards not otherwise : None known.

classified

## Section 3. Composition/information on ingredients

: Mixture Substance/mixture

Ingredient name	%	Identifiers
Acetic acid	≥10 - ≤25	CAS: 64-19-7

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. 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.

: Fush contaminated skin with plenty of water. Remove contaminated clothing and Skin contact

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**M**ash out mouth with water. Remove dentures if any. If material has been swallowed Ingestion 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.

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#### Section 4. First aid measures

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

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

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

#### Over-exposure signs/symptoms

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

pain or 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 : 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. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 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

#### **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.

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## 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.

#### 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".

## **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** 

: Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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

: Specific storage conditions: Please consult the label.

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 sector specific solutions

- : Industrial applications, Professional applications.
- : Not available.

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## Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Acetic acid	NIOSH REL (United States, 10/2020)  TWA 10 hours: 10 ppm.  TWA 10 hours: 25 mg/m³.  STEL 15 minutes: 15 ppm.  STEL 15 minutes: 37 mg/m³.  CAL OSHA PEL (United States, 5/2018)  STEL 15 minutes: 15 ppm.  C: 40 ppm.  TWA 8 hours: 25 mg/m³.  TWA 8 hours: 10 ppm.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 10 ppm.  TWA 8 hours: 25 mg/m³.  OSHA PEL 1989 (United States, 3/1989)  TWA 8 hours: 25 mg/m³.  ACGIH TLV (United States, 1/2024)  TWA 8 hours: 10 ppm.  TWA 8 hours: 25 mg/m³.  STEL 15 minutes: 15 ppm.  STEL 15 minutes: 15 ppm.  STEL 15 minutes: 37 mg/m³.

#### **Biological exposure indices**

No exposure indices known.

#### **8.2 Exposure controls**

Appropriate engineering controls

**Environmental exposure** controls

- : Sood 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. 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.

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## Section 8. Exposure controls/personal protection

**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.

## 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. [Clear.] Color : Colorless.

Odor : Vinegar-like [Slight]

: Not available. **Odor threshold** 

pH 2.13

**Melting point/freezing point Boiling point or initial** boiling point and boiling

range

Flash point

: Not available. : Not available.

Closed cup

Open cup °C °F °C °F Method Method Ingredient name 102.2 Acetic acid 39

**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	-
Acetic acid	15.59383	2.1	_	-	-	-

Result Soluble

Relative vapor density

: Not available.

**Relative density** 

Not available.

Solubility(ies)

**Density** 

1 g/cm<sup>3</sup> [20°C (68°F)]

water

Miscible with water

Yes.

Partition coefficient: noctanol/water

Not applicable.

Media

**Auto-ignition temperature** 

Ingredient name °C °F Method Acetic acid 463 865.4

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## Section 9. Physical and chemical properties and safety characteristics

**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.

## 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.

Reactive or incompatible with the following materials: metals and alkalis.

peroxides amines alcohols

May be corrosive to metals.

10.6 Hazardous decomposition products

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

## Section 11. Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Product/ingredient name Result

Acetic acid Rat - Inhalation - LC50 Vapor 11000 mg/m³ [4 hours]

**Conclusion/Summary** 

[Product]

: Not available.

**Skin corrosion/irritation** 

Product/ingredient name Result

Rabbit - Skin - Severe irritant

Conclusion/Summary

[Product]

: Not available.

#### Serious eye damage/eye irritation

Result

Not available.

[Product]

**Conclusion/Summary** 

iai y

: Not available.

Ingredient name Conclusion/Summary

★Cetic acid Causes eye irritation.

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## **Section 11. Toxicological information**

#### Respiratory corrosion/irritation

**Product/ingredient name** 

Conclusion/Summary

[Product]

: Not available.

Ingredient name Conclusion/Summary

Cetic acid May cause respiratory irritation.

#### Respiratory or skin sensitization

Skin

**Conclusion/Summary** 

: Not available.

[Product]

Respiratory

**Conclusion/Summary** 

: Not available.

[Product]

Germ cell mutagenicity

**Conclusion/Summary** 

: Not available.

[Product]

**Carcinogenicity** 

Not available.

**Conclusion/Summary** 

: Not available.

[Product]

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 serious eye irritation.

Inhalation : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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## **Section 11. Toxicological information**

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

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Kaverse 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

**Conclusion/Summary** 

[Product]

: Not available.

General : No known significant effects or critical hazards.
 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	( 3	Dermal (mg/kg)	(0)	(vapors)	Inhalation (dusts and mists) (mg/ I)
'	N/A	N/A	N/A	88	N/A
	N/A	N/A	N/A	11	N/A

## **Section 12. Ecological information**

#### **12.1 Toxicity**

Product/ingredient name Result

Acetic acid Acute - LC50 - Fresh water 75 ppm [96 hours]

Conclusion/Summary : Not

[Product]

: Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** 

[Product]

: Not available.

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## **Section 12. Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetic acid	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Acetic acid	-0.17	3.16	Low

#### **12.4 Mobility in soil**

Soil/Water partition coefficient

: Not available.

12.5 Other adverse effects

: No known significant effects or critical hazards.

## 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 Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN2790	UN2790	UN2790	UN2790	UN2790
UN proper shipping name	Acetic acid solution	ACETIC ACID SOLUTION	CIDO ACÉTICO EN SOLUCIÓN	ACETIC ACID SOLUTION	Acetic acid solution
Transport hazard class(es)	8 CORROSTITE	8	8	8	8

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## **Section 14. Transport information**

Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	No.

#### Additional information

If shipped as part of a kit "UN3316 (Chemical kit), Class 9, PG II" can be used. Precondition: UN3316 must be allowed for the remaining vials in same kit too.

**DOT Classification** 

: Reportable quantity 40000 lbs / 18160 kg [4797.4 gal / 18160 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Limited quantity Yes.

Packaging instruction Exceptions: 154. Non-bulk: 203. Bulk: 242. Quantity limitation Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.

Special provisions 148, IB3, T4, TP1

**TDG Classification** 

: Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.40-2.42 (Class 8). **Explosive Limit and Limited Quantity Index** 5 Passenger Carrying Road or Rail Index 5

**IMDG** : Emergency schedules F-A, S-B

IATA : Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852.

Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger

Aircraft: 1 L. Packaging instructions: Y841.

**Special provisions** A803

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** : Clean Water Act (CWA) 311: Acetic acid

#### 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

: Not listed

**Class I Substances** 

Clean Air Act Section 602

: Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

Composition/information on ingredients

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## **Section 15. Regulatory information**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

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

Name	%	Classification
Acetic acid		FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract [severe]

#### **State regulations**

Massachusetts : The following components are listed: ACETIC ACID **New York** : The following components are listed: Acetic acid **New Jersey** : The following components are listed: ACETIC ACID **Pennsylvania** : The following components are listed: ACETIC ACID

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** : All components are listed or exempted. Canada : All components are listed or exempted. : All components are listed or exempted. China

**Japan** : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

**New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted. **Thailand** : All components are listed or exempted. : All components are listed or exempted. Turkey **United States** : All components are active or exempted. : All components are listed or exempted.

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## Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
	Expert judgment Expert judgment

#### **History**

Date of issue/Date of

revision

: 02/17/2025

Date of previous issue

: 01/18/2022

Version

: 6

Key to abbreviations

: ATE = Acute Toxicity Estimate 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**

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