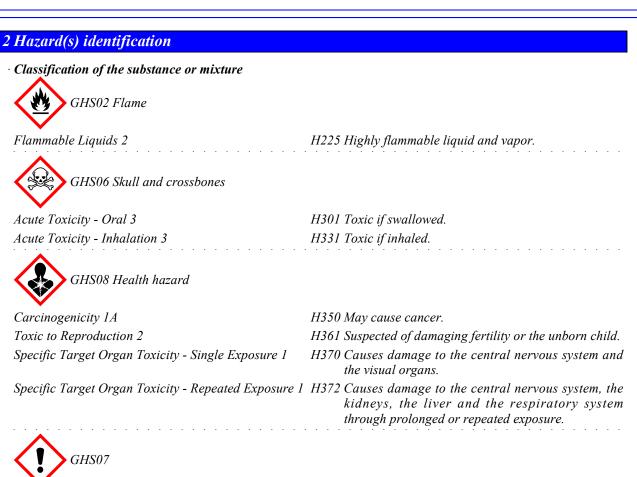
Printing date 07/25/2024

Reviewed on 07/25/2024

### **1** Identification

- · Product identifier
- Trade name: <u>Mixed Internal Standard</u> <u>Esterification Reagent</u>
- · Article number: APC095
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc.
- 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number:* Chemtrec: 800-424-9300 Canutec: 613-996-6666



Acute Toxicity - Dermal 4 Skin Irritation 2 H312 Harmful in contact with skin. H315 Causes skin irritation.

US

Printing date 07/25/2024

Reviewed on 07/25/2024

Trade name: Mixed Internal Standard Esterification Reagent

(Contd. of page 1) Eve Irritation 2A H319 Causes serious eye irritation. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS06 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Chloroform Methanol Sulfuric Acid 96 - 98% · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed or if inhaled. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to the central nervous system and the visual organs. Causes damage to the central nervous system, the kidneys, the liver and the respiratory system through prolonged or repeated exposure. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. (Contd. on page 3)

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(Contd. of page 2)

In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Classification system:

## · NFPA ratings (scale 0 - 4)

 $\begin{array}{c} \textbf{Health} = 2\\ \textbf{Fire} = 3\\ \textbf{Reactivity} = 0 \end{array}$ 

#### · HMIS-ratings (scale 0 - 4)

HEALTH\*2Health = \*2FIRE3Fire = 3REACTIVITYReactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

#### • Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

| · Danger | · Dangerous components:                |                        |         |  |
|----------|--|------------------------|---------|--|
| CAS: 6   | 7-66-3                                 | Chloroform             | 65.348% |  |
| CAS: 6   | 7-56-1                                 | Methanol               | 28.464% |  |
| CAS: 7   | 664-93-9                               | Sulfuric Acid 96 - 98% | 6.155%  |  |
|          | · Table of Nonhazardous Ingredients    |                        |         |  |
| CAS: 7   | CAS: 79-11-8 Chloroacetic Acid 99% 0.0 |                        | 0.034%  |  |

## 4 First-aid measures

• Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• *After swallowing:* Do not induce vomiting; immediately call for medical help.

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(Contd. of page 3)

2 ppm 530 ppm

0.20 mg/m<sup>3</sup> 1.5 ppm

64 ppm 2,100 ppm 8.7 mg/m<sup>3</sup> 6.6 ppm

- 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.* • *Special hazards arising from the substance or mixture*
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

| Demonstrations and address and and an array and and are array and and are array and are array and are array and are array a |   |  |  |  |  |
|---|---|--|--|--|--|
| • <b>Personal precautions, protective equipment and emergency procedures</b><br>Mount respiratory protective device.  |   |  |  |  |  |
|   | Wount respiratory protective device.<br>Wear protective equipment. Keep unprotected persons away. |  |  |  |  |
| • Environmental p   |   |  |  |  |  |
| Dilute with plent   |   |  |  |  |  |
|   | enter sewers/ surface or ground water.  |  |  |  |  |
|   | terial for containment and cleaning up:   |  |  |  |  |
|   | id-binding material (sand, diatomite, acid binders, universal binders, sawdust).                  |  |  |  |  |
|   | nated material as waste according to section 13.  |  |  |  |  |
| Ensure adequate   | ventilation.  |  |  |  |  |
| · Reference to oth  |   |  |  |  |  |
|   | information on safe handling.   |  |  |  |  |
|   | information on personal protection equipment.   |  |  |  |  |
|   | r disposal information.   |  |  |  |  |
|   | 1 Criteria for Chemicals  |  |  |  |  |
| • PAC-1:  |   |  |  |  |  |
| CAS: 67-66-3  | Chloroform  |  |  |  |  |
| CAS: 67-56-1  | Methanol  |  |  |  |  |
| CAS: 7664-93-9  | Sulfuric Acid 96 - 98%  |  |  |  |  |
| CAS: 79-11-8  | Chloroacetic Acid 99%   |  |  |  |  |
| · PAC-2:  |   |  |  |  |  |
| CAS: 67-66-3  | Chloroform  |  |  |  |  |
| CAS: 67-56-1  | Methanol  |  |  |  |  |
| CAS: 7664-93-9  | Sulfuric Acid 96 - 98%  |  |  |  |  |
| CAS: 79-11-8  | Chloroacetic Acid 99%   |  |  |  |  |
| · PAC-3:  |   |  |  |  |  |

|   | 1710-5.        |                        |                  |
|---|----------------|------------------------|------------------|
| ſ | CAS: 67-66-3   | Chloroform             | 3,200 ppm        |
|   | CAS: 67-56-1   | Methanol               | 7200* ppm        |
|   | CAS: 7664-93-9 | Sulfuric Acid 96 - 98% | 160 mg/m³        |
|   |                | (C                     | ontd. on page 5) |

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CAS: 79-11-8 Chloroacetic Acid 99%

(Contd. of page 4) 15 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.
- $\cdot$  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:

#### CAS: 67-66-3 Chloroform

- PEL Ceiling limit value: 240 mg/m<sup>3</sup>, 50 ppm
- REL Short-term value: 9.78\* mg/m<sup>3</sup>, 2\* ppm \*60-min; See Pocket Guide App. A
- *TLV Long-term value: 10 ppm*

#### A3 CAS: 67-56-1 Methanol

PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm

- REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm Long-term value: 260 mg/m<sup>3</sup>, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

#### CAS: 7664-93-9 Sulfuric Acid 96 - 98%

- PEL Long-term value: 1 mg/m<sup>3</sup>
- REL Long-term value: 1 mg/m<sup>3</sup>
- TLV Long-term value: 0.2\* mg/m<sup>3</sup>
  - \*as thoracic fraction, A2

(Contd. on page 6)

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| · Ingredients | with | biological | limit | values: |
|---------------|------|------------|-------|---------|
|               |      |            |       |         |

#### CAS: 67-56-1 Methanol

BEI 15 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: *Keep away from foodstuffs, beverages and feed.* Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

#### • Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.* Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:

Liquid

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## Trade name: Mixed Internal Standard Esterification Reagent

|   | (Contd. of page   |
|---|---|
| Color:<br>• Odor:   | Clear<br>de l'alcool  |
| • Odor threshold:   | l<br>Not determined.  |
| · pH-value:   | Not determined.   |
| <ul> <li>Change in condition<br/>Melting point/Melting range:<br/>Boiling point/Boiling range:</li> </ul> | Undetermined.<br>64 °C (147.2 °F)   |
| · Flash point:  | 0 °C (32 °F)  |
| · Flammability (solid, gaseous):  | Highly flammable.   |
| · Auto igniting:  | 455 °C (851 °F)   |
| · Decomposition temperature:  | Not determined.   |
| · Ignition temperature:   | Product is not selfigniting.  |
| · Danger of explosion:  | Product is not explosive. However, formation of explosive air/vapo mixtures are possible.             |
| · Explosion limits:<br>Lower:<br>Upper:   | 5.5 Vol %<br>44 Vol %   |
| · Vapor pressure at 20 °C (68 °F):  | 210 hPa (157.5 mm Hg)   |
| · Density at 20 °C (68 °F):<br>· Relative density<br>· Vapor density<br>· Evaporation rate                | 1.30614 g/cm <sup>3</sup> (10.89974 lbs/gal)<br>Not determined.<br>Not determined.<br>Not determined. |
| · Solubility in / Miscibility with<br>Water:  | Fully miscible.   |
| · Partition coefficient (n-octanol/water  | ): Not determined.  |
| · Viscosity:<br>Dynamic:<br>Kinematic:  | Not determined.<br>Not determined.  |
| Solvent content:<br>Organic solvents:<br>VOC content:   | 28.5 %<br>28.46 %<br>371.8 g/l / 3.10 lb/gal  |
| Solids content:   | 0.0 %   |
| · Other information   | No further relevant information available.  |

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

(Contd. on page 8)

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(Contd. of page 7)

### Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Mixed Internal Standard Esterification Reagent

· 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)

OralLD50241 mg/kgDermalLD501,054 mg/kgInhalativeLC50/4h3.2 mg/l

#### · Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• 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: Toxic

Harmful

Irritant

#### Carcinogenic categories

| · IARC (International Agency for Research on Cancer)    |                        |    |  |
|---|------------------------|----|--|
| CAS: 67-66-3  | Chloroform             | 2B |  |
| CAS: 7664-93-9  | Sulfuric Acid 96 - 98% | 1  |  |
| · NTP (National Toxicology Program)                     |                        |    |  |
| CAS: 67-66-3  | Chloroform             | R  |  |
| CAS: 7664-93-9  | Sulfuric Acid 96 - 98% | K  |  |
| · 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.
- · 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.

· Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

# **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

| UN-Number                  | 1012207  |
|----------------------------|--|
| DOT, IMDG, IATA            | UN3286   |
| UN proper shipping name    |  |
| DOT                        | Flammable liquid, toxic, corrosive, n.o.s. (Methanol, Chloroforn<br>Sulfuric Acid) |
| IMDG, IATA                 | FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (Methano                                |
| -,                         | Chloroform, Sulfuric Acid)   |
| Transport hazard class(es) |  |
| DOT                        |  |
| CORROSVE<br>3 6 6          |  |
| Class                      | 3 Flammable liquids  |
| Label                      | 3, 6.1, 8  |
|                            |  |
| Class                      | 3 Flammable liquids  |
| Label                      | 3/6.1/8  |
| IATA                       |  |
|                            |  |
|                            | 3 Flammable liquids  |

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|   | (Contd. of page                                       |
|---|---|
| Label                                       | 3 (6.1, 8)  |
| Packing group                               |   |
| DOT, IMDG, IATA                             | II  |
| Environmental hazards:                      |   |
| Marine pollutant:                           | No  |
| Special precautions for user                | Warning: Flammable liquids                            |
| Hazard identification number (Kemler code): |   |
| EMS Number:                                 | F-E,S-C   |
| Segregation groups                          | (SGG1) Acids, (SGG10) liquid halogenated hydrocarbons |
| Stowage Category                            | В   |
| Stowage Code                                | SW2 Clear of living quarters.                         |
| Segregation Code                            | SG5 Segregation as for class 3                        |
|   | SG8 Stow "away from" class 4.1                        |
| 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: 1 L                       |
|   | On cargo aircraft only: 5 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 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.      |
| 0   | (METHANOL, CHLOROFORM, SULFURIC ACID), 3 (6.1+8), I   |

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

| <ul> <li>Section 355 (extr</li> </ul> | emely hazardous substances):    |                     |
|---------------------------------------|---------------------------------|---------------------|
| CAS: 67-66-3                          | Chloroform                      |                     |
| CAS: 7664-93-9                        | Sulfuric Acid 96 - 98%          |                     |
| CAS: 79-11-8                          | Chloroacetic Acid 99%           |                     |
| · Section 313 (Spe                    | cific toxic chemical listings): |                     |
| All ingredients ar                    | e listed.                       |                     |
| · TSCA (Toxic Sul                     | ostances Control Act):          |                     |
| Chloroform                            |                                 | ACTIVE              |
| Methanol ACTI                         |                                 |                     |
| Sulfuric Acid 96 - 98% AC             |                                 | ACTIVE              |
| Chloroacetic Acid 99%                 |                                 | ACTIVE              |
| · Hazardous Air P                     | ollutants                       |                     |
| CAS: 67-66-3 Ch                       | loroform                        |                     |
|                                       |                                 | (Contd. on page 11) |

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#### Trade name: Mixed Internal Standard Esterification Reagent

(Contd. of page 10)

B2, L, NL

AЗ

A2

A4

CAS: 79-11-8 Chloroacetic Acid 99%

· Proposition 65

• Chemicals known to cause cancer:

CAS: 67-66-3 Chloroform

CAS: 67-56-1 Methanol

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

CAS: 67-66-3 Chloroform CAS: 67-56-1 Methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 67-66-3 Chloroform

• TLV (Threshold Limit Value)

CAS: 67-66-3 Chloroform

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

CAS: 79-11-8 Chloroacetic Acid 99%

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

CAS: 67-66-3 Chloroform

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



· Signal word Danger

Hazard-determining components of labeling: Chloroform Methanol Sulfuric Acid 96 - 98% · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed or if inhaled. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to the central nervous system and the visual organs. Causes damage to the central nervous system, the kidneys, the liver and the respiratory system through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use.

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| (Contd. of page   | 11) |
|---|-----|
| Do not handle until all safety precautions have been read and understood.   |     |
| Keep away from heat/sparks/open flames/hot surfaces No smoking.   |     |
| Ground/bond container and receiving equipment.  |     |
| Use explosion-proof electrical/ventilating/lighting/equipment.  |     |
| Use only non-sparking tools.  |     |
| Take precautionary measures against static discharge.   |     |
| Do not breathe dust/fume/gas/mist/vapors/spray.   |     |
| Wash thoroughly after handling.   |     |
| Do not eat, drink or smoke when using this product.   |     |
| Use only outdoors or in a well-ventilated area.   |     |
| Wear protective gloves/protective clothing/eye protection/face protection.  |     |
| If swallowed: Immediately call a poison center/doctor.  |     |
| Specific treatment (see on this label).   |     |
| Rinse mouth.  |     |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                               |     |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing.  |     |
| If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to a                      | do. |
| Continue rinsing.   |     |
| IF exposed or concerned: Get medical advice/attention.  |     |
| Call a poison center/doctor if you feel unwell.   |     |
| Get medical advice/attention if you feel unwell.  |     |
| Take off contaminated clothing and wash it before reuse.  |     |
| If skin irritation occurs: Get medical advice/attention.  |     |
| If eye irritation persists: Get medical advice/attention.   |     |
| In case of fire: Use CO2, powder or water spray to extinguish.  |     |
| Store in a well-ventilated place. Keep container tightly closed.  |     |
| Store in a well-ventilated place. Keep cool.  |     |
| Store locked up.  |     |
| Dispose of contents/container in accordance with local/regional/national/international regulations.                               |     |
| · National regulations:   |     |
| · Additional classification according to Decree on Hazardous Materials:<br>Carcinogenic hazardous material group III (dangerous). |     |
| · Information about limitation of use:  |     |
| Workeys are not allowed to be expected to the harandous equip equip materials contained in this much quati                        |     |

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:
- Date of Preparation / Last Revision:
- Date of preparation / last revision
- *Revision 1.2, 07-25-2024: Reviewed SDS for accuracy. STN/GW 07/25/2024 / 1.1*
- Abbreviations and acronyms: 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

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|   | (Contd. of page 12) |
|---|---------------------|
| ELINCS: European List of Notified Chemical Substances   |                     |
| CAS: Chemical Abstracts Service (division of the American Chemical Society)   |                     |
| NFPA: National Fire Protection Association (USA)  |                     |
| HMIS: Hazardous Materials Identification System (USA)   |                     |
| VOC: Volatile Organic Compounds (USA, EU)   |                     |
| LC50: Lethal concentration, 50 percent  |                     |
| LD50: Lethal dose, 50 percent   |                     |
| PBT: Persistent, Bioaccumulative and Toxic  |                     |
| vPvB: very Persistent and very Bioaccumulative  |                     |
| NIOSH: National Institute for Occupational Safety   |                     |
| OSHA: Occupational Safety & Health  |                     |
| TLV: Threshold Limit Value  |                     |
| PEL: Permissible Exposure Limit   |                     |
| REL: Recommended Exposure Limit   |                     |
| BEI: Biological Exposure Limit  |                     |
| Flammable Liquids 2: Flammable liquids – Category 2   |                     |
| Acute Toxicity - Oral 3: Acute toxicity – Category 3  |                     |
| Acute Toxicity - Dermal 4: Acute toxicity – Category 4  |                     |
| Skin Irritation 2: Skin corrosion/irritation – Category 2   |                     |
| Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  |                     |
| Carcinogenicity 1A: Carcinogenicity – Category 1A   |                     |
| Toxic to Reproduction 2: Reproductive toxicity – Category 2   |                     |
| Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1     |                     |
| Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 |                     |
| • * Data compared to the previous version altered.  |                     |
|   | LIC                 |