

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/05/2020

Reviewed on 03/05/2020

### \* 1 Identification

· **Product Identifier**

· **Trade Name:** AcriFluor Stain

· **Product Number:** 384

· **Relevant identified uses of the substance or mixture and uses advised against:**

· **Product Description:** Industry-specific application

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

Scientific Device Laboratory

411 Jarvis Avenue

Des Plaines, IL 60018

847-803-9495

· **Emergency telephone number:**

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

### \* 2 Hazard(s) Identification

· **Classification of the substance or mixture:**



Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

STOT SE 3 H335 May cause respiratory irritation.

· **Label elements:**

· **Hazard pictograms:**



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**Trade Name: AcriFluor Stain**· **Signal word:** Danger· **Hazard-determining components of labeling:**

Glycerin

Trade Secret

· **Hazard statements:**

H225

Highly flammable liquid and vapor.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dusts or mists.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme· **NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 3

Reactivity = 0

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**Trade Name: AcriFluor Stain**
**· HMIS-ratings (scale 0 - 4)**

|            |   |                     |
|------------|---|---------------------|
| HEALTH     | 3 | Health = 3          |
| FIRE       | 3 | Fire = 3            |
| REACTIVITY | 0 | Physical Hazard = 0 |

**· Hazard(s) not otherwise classified (HNOC):** None known

### \* 3 Composition/Information on Ingredients

**· Chemical characterization: Mixtures**
**· Description:** Mixture of substances listed below with non-hazardous additions.

**· Dangerous Components:**

|                                   |   |
|-----------------------------------|---|
| CAS: 56-81-5<br>RTECS: MA 8050000 | Glycerin<br>☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2B, H320  |
|                                   | Trade Secret<br>☠ Flam. Liq. 2, H225; ☠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320                                     |
| RTECS: SJ 3325000                 | Trade Secret<br>☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ Muta. 2, H341; STOT RE 2, H373; ☠ Skin Corr. 1B, H314 |

**· Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

### \* 4 First-Aid Measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

**· After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

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

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Immediate medical treatment is necessary. Failure to treat burns can prevent wounds from healing.

**· After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

**· After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**· Information for doctor**
**· Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### \* 5 Fire-Fighting Measures

**· Extinguishing media**
**· Suitable extinguishing agents:**

 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
 As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
 Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
 Use neutralizing agent.  
 Dispose of contaminated material as waste according to section 13.  
 Ensure adequate ventilation.  
 Dispose of the collected material according to regulations.
- **Reference to other sections:**  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

|                 |          |                         |
|-----------------|----------|-------------------------|
| · <b>PAC-1:</b> |          |                         |
| 56-81-5         | Glycerin | 45 mg/m <sup>3</sup>    |
| · <b>PAC-2:</b> |          |                         |
| 56-81-5         | Glycerin | 180 mg/m <sup>3</sup>   |
| · <b>PAC-3:</b> |          |                         |
| 56-81-5         | Glycerin | 1,100 mg/m <sup>3</sup> |

### \* 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
 Keep ignition sources away - Do not smoke.  
 Protect from heat.  
 Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
 Store in the original container.  
 Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Keep receptacle tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.  
 Protect from heat and direct sunlight.
- **Specific end use(s):** No further relevant information available.

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### \* 8 Exposure Controls/Personal Protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters:**

· **Components with occupational exposure limits:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

| <b>56-81-5 Glycerin</b> |   |
|-------------------------|---|
| PEL                     | Long-term value: 15* 5** mg/m <sup>3</sup><br>mist; *total dust **respirable fraction |
| TLV                     | TLV withdrawn-insufficient data human occup. exp.                                     |

· **Ingredients with biological limit values:**

| <b>Trade Secret</b> |  |
|---------------------|--|
| BEI                 | 250 mg/g creatinine<br>urine<br>end of shift<br>Phenol with hydrolysis (background, nonspecific) |

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

· **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 cannot 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 determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

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### \* 9 Physical and Chemical Properties

#### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

**Form:** Solution**Color:** Yellow orange**· Odor:** Odorless**· Odor threshold:** Not determined.**· pH-value:** Not available

#### · Change in condition

**Melting point/Melting range:** Not determined.**Boiling point/Boiling range:**  $\geq 78\text{ }^{\circ}\text{C}$  ( $\geq 172.4\text{ }^{\circ}\text{F}$ )**· Flash point:**  $\geq 13\text{ }^{\circ}\text{C}$  ( $\geq 55.4\text{ }^{\circ}\text{F}$ )**· Flammability (solid, gaseous):** Not applicable.**· Ignition temperature:**  $\geq 400\text{ }^{\circ}\text{C}$  ( $\geq 752\text{ }^{\circ}\text{F}$ )**· Decomposition temperature:** Not determined.**· Auto igniting:** Product is not self-igniting.**· Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### · Explosion limits:

**Lower:** Not determined.**Upper:** Not determined.**· Vapor pressure @ 20 °C (68 °F):**  $\leq 59\text{ hPa}$  ( $\leq 44.3\text{ mm Hg}$ )**· Density:** Not determined.**· Relative density:** Not determined.**· Vapor density:** Not determined.**· Evaporation rate:** Not determined.

#### · Solubility in / Miscibility with:

**Water:** Fully miscible.**· Partition coefficient (n-octanol/water):** Not determined.

#### · Viscosity:

**Dynamic:** Not determined.**Kinematic:** Not determined.

#### · Solvent content:

**Organic solvents:** 55.5 %**VOC content:** 30.50 %

549.5 g/l / 4.59 lb/gal

**· Other information:** No further relevant information available.

### \* 10 Stability and Reactivity

**· Reactivity:** No further relevant information available.**· Chemical stability:** Stable under normal conditions.**· Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**· Possibility of hazardous reactions:** No dangerous reactions known.

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**Trade Name: AcriFluor Stain**

- **Conditions to avoid:** Heat, flame and ignition sources.
- **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:**

| 56-81-5 Glycerin |               |                        |
|------------------|---------------|------------------------|
| Oral             | LD50          | 12,600 mg/kg (Rat)     |
| Dermal           | LD50          | >10,000 mg/kg (Rabbit) |
| Inhalative       | LC50/96 hours | >50,000 mg/l (Trout)   |
| Trade Secret     |               |                        |
| Oral             | LD50          | 7,060 mg/kg (Rat)      |
| Inhalative       | LC50/4 h      | 20,000 mg/l (Rat)      |
| Trade Secret     |               |                        |
| Oral             | LD50          | 317 mg/kg (Rat)        |
| Dermal           | LD50          | 850 mg/kg (Rabbit)     |

 · **Primary irritant effect:**

 · **On the skin:** Strong caustic effect on skin and mucous membranes.

 · **On the eye:**

Strong irritant with the danger of severe eye injury.

Corrosive effect.

Causes serious eye irritation.

 · **Additional toxicological information:**

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

Harmful

Corrosive

Irritant

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

 · **Carcinogenic categories:**

 · **IARC (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

|              |   |
|--------------|---|
| Trade Secret | 1 |
| Trade Secret | 3 |

 · **NTP (National Toxicology Program):**

None of the ingredients are listed.

 · **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

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### 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.  
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
 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.  
 Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### \*14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** UN1992
- **UN proper shipping name:**
- **DOT** Flammable liquids, toxic, n.o.s. (Ethanol, Phenol)
- **ADR/ADN** UN1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL (ETHYL ALCOHOL), PHENOL)
- **IMDG** FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL (ETHYL ALCOHOL), PHENOL)
- **IATA** FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL, PHENOL)
- **Transport hazard class(es):**
- **DOT**



- **Class:** 3 Flammable liquids

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**Trade Name: AcriFluor Stain**

· **Label:** 3, 6.1

· **ADR/ADN**



· **Class:** 3 (FT1) Flammable liquids  
 · **Label:** 3+6.1

· **IMDG**



· **Class:** 3 Flammable liquids  
 · **Label:** 3/6.1

· **IATA**



· **Class:** 3 Flammable liquids  
 · **Label:** 3 (6.1)  
 · **Packing group:** II  
 · **DOT, ADR/ADN, IMDG, IATA** II  
 · **Environmental hazards:** Not applicable.  
 · **Special precautions for user:** Warning: Flammable liquids  
 · **Hazard identification number (Kemler code):** 336  
 · **EMS Number:** F-E,S-D  
 · **Stowage Category** B  
 · **Stowage Code** SW2 Clear of living quarters.  
 · **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: 60 L

· **ADR/ADN**

· **Excepted quantities (EQ):** Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml

· **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 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL (ETHYL ALCOHOL), PHENOL), 3 (6.1), II

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### \*15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

Trade Secret

- **Section 313 (Specific toxic chemical listings):**

Trade Secret

10127-02-3 Acridine orange

- **TSCA (Toxic Substances Control Act):**

7732-18-5 Water, distilled water, deionized water

ACTIVE

56-81-5 Glycerin

ACTIVE

- **Hazardous Air Pollutants**

None of the ingredients are listed.

- **California Proposition 65:**



WARNING: This product can expose you to chemicals including the listed chemicals which are known to the State of California to cause cancer, birth defects and/or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

Trade Secret

- **New Jersey Right-to-Know List:**

56-81-5 Glycerin

- **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.

- **Pennsylvania Right-to-Know List:**

56-81-5 Glycerin

- **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

Trade Secret

D, I

- **TLV (Threshold Limit Value established by ACGIH):**

Trade Secret

A3

Trade Secret

A4

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

None of the ingredients are listed.

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**Trade Name: AcriFluor Stain**

- **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:**

Glycerin  
 Trade Secret

- **Hazard statements:**

H225 Highly flammable liquid and vapor.  
 H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H341 Suspected of causing genetic defects.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements:**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe dusts or mists.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.  
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
 P302+P352 If on skin: Wash with plenty of water.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a poison center/doctor.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
 P314 Get medical advice/attention if you feel unwell.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

None of the ingredients are listed.

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

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of last revision/ revision number:** 03/05/2020 / 2

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: 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 and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Muta. 2: Germ cell mutagenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

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