Printing date 06/10/2024

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Reviewed on 06/10/2024

1 Identification         • Product identifier         • Trade name: Dichloroftaorescein <u>0.1% in 70% Methanol</u> • Article number: 2750         • Details of the supplier of the safety data sheet         • Aqua Solutions, Inc.         • Gill 3 Highway 225         • DFER PARK, TX 7736         USA         800-256-2586         • Information department: Technical Coordinator         • Sherman Nelson sherman@ aquasolutions.org         • Sherman Nelson sherman@ aquasolutions.org         • Benergency telephone number: Chemice: 613-996-6666         2 Hazard(s) identification         • Classification of the substance or mixture         • Of         • GHS02 Flame         Flammable Liquids 2         H301 Toxic if swallowed.         Acute Toxicity - Oral 3         Acute Toxicity - Oral 3         Acute Toxicity - Inhalation 3         H311 Toxic if swallowed.         Acute Toxicity - Inhalation 3         H331 Toxic if inhaled.         • Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.         • Label elements         • GHS04 Flame         • GHS04 Flame         • Guide telements         • GHS05 Flame	Printing date 06/10/2024	<i>Keviewea on 06/10/2024</i>
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1 Trade name: Dichlorofluorescein         0.7F: in 70% Methanol         Article number: 2730         Details of the supplier:         Aqua Solutions, Inc.         0913 Highway 225         DEER PARK, TX 7736         USA         800-256-2586         Information department:         Technical Coordinator         Sherman Nelson shermann@ aquasolutions.org         Temergency telephone number:         Chemrec: 800-424-9300         Canute:: 613-996-6666         Itage of the substance or mixture         Itage of the substance or mixture         Itage of the substance or substance         GHS02 Flame         Flammable Liquids 2         H225 Highly flammable liquid and vapor.         Itage of the substance of substance or substance         Acute Toxicity - Oral 3       H301 Toxic if swallowed.         Acute Toxicity - Inhelation 3       H311 Toxic in contact with s		
UNE IN 10% Methanol• Article number: 2730• Details of the supplier of the safety data sheet• Manufacturer/Supplier:Aqua Solutions, Inc.(9)3 Highway 225DEER PARK, TX 77536USA800-256-2586• Information department:Technical CoordinatorSherman Nelson shermann@aquasolutions.orgTechnical CoordinatorSherman Nelson shermann@aquasolutions.orgSherman Nelson shermann@aquasolutions.org• Technical CoordinatorSherman Nelson shermann@aquasolutions.org• Termical CoordinatorSherman Nelson shermann@aquasolutions.org• Termical Starman@aquasolutions.org• Technical Starman@aquasolutions.org• Charget Organ of the substance or mixture• Outer Toxicity - Oral 3Actuet Toxicity - Dermal 3Actuet Toxicity - Dermal 3Actuet Toxicity - Dermal 3Actuet Toxicity - Dermal 3H301 Toxic if swallowed.Actuet Toxicity - Inhelaction 3H331 Toxic if inhaled.• Outer Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual or	·	
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<ul> <li>Manufacturer/Supplier: Aque Solutions, Inc. 6913 Highway 225 DEER PARK, IX 77336 USA 800-256-2586</li> <li>Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org</li> <li>Berregency Ielephone number: Chemtres: 800-242-9300 Canutec: 613-996-6666</li> <li>2 Hazard(s) identification</li> <li>Classification of the substance or mixture Organization of the substance or mixture</li> <li>Official Coordinator</li> <li>GHS02 Flame</li> <li>Flammable Liquids 2</li> <li>H225 Highly flammable liquid and vapor.</li> <li>Official Coordinator</li> <li>GHS06 Skull and crossbones</li> <li>Acute Toxicity - Oral 3</li> <li>H301 Toxic if swallowed.</li> <li>Acute Toxicity - Oral 3</li> <li>H301 Toxic if inhaled.</li> <li>Official Coordinator</li> <li>GHS08 Health hazard</li> <li>Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.</li> <li>Label elements</li> <li>CHS08 Health hazard</li> <li>Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.</li> <li>Label elements</li> <li>CHS08 Health hazard</li> <li>Cusal organs</li> <li>Cusal Coordinator</li> <li>Cusal Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.</li> <li>Label elements</li> <li>CHS08 Health hazard</li> <li>Cusal Organs</li> <li>Cusal Organ Toxicity - Single Exposure 1 H370 Causes damage to the Central nervous system (GHS).</li> <li>Hazard pictograms</li> <li>Cusal Condition Cause damage to the Central nervous system (GHS).</li> <li>Hazard pictograms</li> <li>Cusal Organ Toxicity - Single Exposure 1 H370 Causes damage to the Central nervous system (GHS).</li> <li>Hazard pictograms</li> </ul>	• Article number: 2750	
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Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute Toxicity - Oral 3 H301 Toxic if swallowed. Acute Toxicity - Dermal 3 H311 Toxic in contact with skin. Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs. Label elements GHS08 The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS02 GHS06 GHS08	Technical Coordinator Sherman Nelson shermann@aquasolution. Technical Coordinator Sherman Nelson shermann@aquasolution. • <b>Emergency telephone number:</b> Chemtrec: 800-424-9300	
Flammable Liquids 2       H225 Highly flammable liquid and vapor.         Image: Construct of the state of t		2
Acute Toxicity - Oral 3       H301 Toxic if swallowed.         Acute Toxicity - Dermal 3       H311 Toxic in contact with skin.         Acute Toxicity - Inhalation 3       H331 Toxic if inhaled.         Image: Comparison of the comparis	GHS02 Flame	
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• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms GHS02 GHS06 GHS08	Specific Target Organ Toxicity - Single Ex	
	• GHS label elements The product is classif	
Signal word Danger	GHS02 GHS06 GHS08	
	• Signal word Danger	(Contd. on page 2)

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# Trade name: Dichlorofluorescein 0.1% in 70% Methanol

	(Contd. of page 1
Hazard-determining components of labeling:	
Methanol	
Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes damage to the central nervous system and the visual organs.	
Precautionary statements	
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.	
f swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
f on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/showe	r.
F INHALED: Remove person to fresh air and keep comfortable for breathing.	
F exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
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 regulatio	ns.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
$\frac{3}{Fire} = 3$	
$\frac{2}{Reactivity} = 0$	
Keacuvuy = 0	
HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 3 Health = $3$	
FIRE $2$ Fire = 2	
$\frac{1}{\text{REACTIVITY}} = 0$	
REACTIVITY U REACTIVITY - 0	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
P <b>BT:</b> Not applicable. P <b>PvB:</b> Not applicable.	

· Chemical characterization: Mixtures

\*

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

(Contd. on page 3)

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# Trade name: Dichlorofluorescein

0.1% in 70% Methanol

		(Contd. of page 2)
· Dangerous comp	ponents:	
CAS: 67-56-1 M	lethanol	64.895%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	34.988%
CAS: 76-54-0	2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	0.117%

## 4 First-aid measures

#### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

- *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.
- $\cdot \textit{After skin contact: Immediately wash with water and so ap and rinse thoroughly.}$
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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.
- $\cdot$  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

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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Trade name: Dichlorofluorescein 0.1% in 70% Methanol	

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US

See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
CAS: 67-56-1 Methanol	530 ppm
· PAC-2:	
CAS: 67-56-1 Methanol	2,100 ppm
· PAC-3:	
CAS: 67-56-1 Methanol	7200* 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.
- 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.

· Cont	rol parameters		
· Com	· Components with limit values that require monitoring at the workplace:		
CAS:	67-56-1 Methanol		
PEL	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm		
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin		
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc		
	(Contd. on page 5)		

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Trade name: Dichlorofluorescein 0.1% in 70% Methanol

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the creation were used as basis.
3.
y filter device. In case of intensive or longer exposure
lating air.
to the product/ the substance/ the preparation. Aterial can be given for the product/ the preparation/
enetration times, rates of diffusion and the degradation
l on the material, but also on further marks of quality ct is a preparation of several substances, the resistanc has therefore to be checked prior to the application.
he manufacturer of the protective gloves and has to
ļ

· Information on basic physical and chemical properties

Liquid Yellow

Methanol

· General Information

\*

- Appearance:
- Form: Color: • Odor:

(Contd. on page 6)

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#### Trade name: Dichlorofluorescein 0.1% in 70% Methanol

	(Contd. of page
· Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 64 °C (147.2 °F)
· Flash point:	11 °C (51.8 °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: Lower: Upper:	5.5 Vol % 44 Vol %
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
· Density at 20 °C (68 °F): · Relative density · Vapor density · Evaporation rate	0.85377 g/cm <sup>3</sup> (7.12471 lbs/gal) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content:	
Organic solvents: Water:	64.9 % 35.0 %
VOC content:	64.89 % 554.1 g/l / 4.62 lb/gal
Solids content:	0.0 %
• Other information	No further relevant information available.

# **10** Stability and reactivity

• *Reactivity* No further relevant information available.

· 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.

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<sup>—</sup> US

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## Safety Data Sheet acc. to OSHA HCS

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Trade name: Dichlorofluorescein

0.1% in 70% Methanol

• 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)

Oral	LD50	154 mg/kg
Dermal	LD50	462 mg/kg
Inhalative	LC50/4h	4.62 mg/l

#### · Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No 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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### · 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- $\cdot$  Other adverse effects No further relevant information available.

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#### Trade name: Dichlorofluorescein 0.1% in 70% Methanol

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# **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 · DOT, IMDG, IATA	UN1993
· UN proper shipping name · DOT · IMDG, IATA	Flammable liquids, n.o.s. (Methanol) FLAMMABLE LIQUID, N.O.S. (Methanol)
· Transport hazard class(es)	
·DOT	
RAMMARE LOUD	
· Class	2 Elammable liquide
· Class · Label	3 Flammable liquids 3
· Class	3 Flammable liquids
·Label	5
· Packing group · DOT, IMDG, IATA	II
Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
	: 336
• Hazard identification number (Kemler code)	
<ul> <li>Hazard identification number (Kemler code)</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	F-E, <u>S-E</u> B
· EMS Number:	

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## Trade name: Dichlorofluorescein 0.1% in 70% Methanol

	(Contd. of page 8)
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
$\cdot$ 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 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

· Suru		
· Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
· Section 313 (Specific toxic chemical listings):		
CAS: 67-56-1 Methanol		
· TSCA (Toxic Substances Control Act):		
Methanol	ACTIVE	
Water	ACTIVE	
2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	ACTIVE	
· Hazardous Air Pollutants		
CAS: 67-56-1 Methanol		
· Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients is listed.		
· 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: 67-56-1 Methanol		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value)		
None of the ingredients is listed.		
·NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
	(0, 1, 1, 10)	

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Trade name: Dichlorofluorescein 0.1% in 70% Methanol

• GHS label elements The product is classified and labeled according to the Globally Harmonized	(Contd. of page 9) d System (GHS).
· Hazard pictograms	
$\wedge \land \land$	
GHS02 GHS06 GHS08	
Signal word Danger	
Hazard-determining components of labeling:	
Methanol	
Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes damage to the central nervous system and the visual organs.	
Precautionary statements	
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/showed	er.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
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 regulation	ons.
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, 06/10/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 12-11-2014. STN 06/10/2024 / 1.0

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Printing date 06/10/2024

Reviewed on 06/10/2024

# Trade name: Dichlorofluorescein 0.1% in 70% Methanol

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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	
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	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1	
* Data compared to the previous version altered.	