Printing date 05/30/2024

Reviewed on 05/30/2024

1 Identification · Product identifier · Trade name: Isooctane Solution · Article number: SPE749 · 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 **2** Hazard(s) identification · Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irritation 2 H315 Causes skin irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 2,2,4-Trimethylpentane (Iso-Octane) (Contd. on page 2) US

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Do NOT induce vomiting. 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. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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 regulations. • Classification system: • NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 Fire = 3 Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPyB; Not applicable.	If swallowed: Immediately call a poison center/doctor.	
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IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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 regulations.• Classification system: • NFPA ratings (scale 0 - 4)Image: Store in a get the store in a container in accordance with local/regional/national/international regulations.• Classification system: • NFPA ratings (scale 0 - 4)Image: Store in a container in accordance with local/regional/national/international regulations.• Classification system: • NFPA ratings (scale 0 - 4)Image: Store in a container in accordance with local/regional/national/international regulations.• Classification system: • NFPA ratings (scale 0 - 4)Image: Store in a container in accordance with local/regional/national/international regulations.• Classification system: • NFPA ratings (scale 0 - 4)Image: Store in a container in accordance with local/regional/national/international regulations.• Classification system: • NFPA ratings (scale 0 - 4)Image: Store in a container in accordance with local/regional/national/international regulations.• Halth = 2 Fire = 3 Reactivity = 0• Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable.• PBT: Not applicable.• PVB: Not applicable. <td>Do NOT induce vomiting.</td> <td></td>	Do NOT induce vomiting.	
Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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 regulations. • Classification system: • NFPA ratings (scale 0 - 4) $ \begin{array}{r} \hline 4ealth = 2 \\ Fire = 3 \\ Reactivity = 0 \end{array} $ • HMIS-ratings (scale 0 - 4) $ \begin{array}{r} \hline Health = 2 \\ Fire = 3 \\ Reactivity = 0 \end{array} $ • Cher hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • yPyB: Not applicable.		
Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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 regulations. Classification system: • NFPA ratings (scale 0 - 4) $ \begin{array}{r} $		
If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. 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) • Health = 2 Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • yPyB: Not applicable.	Call a poison center/doctor if you feel unwell.	
Wash contaminated clothing 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 regulations.• Classification system:• NFPA ratings (scale 0 - 4)Image: the space of the sp	Take off 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 locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HIS-ratings (scale 0 - 4) HEALTH $\stackrel{?}{=}$ Health = 2 Fire = 3 REACTIVITY $\stackrel{?}{=}$ Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	If skin irritation or rash occurs: Get medical advice/attention.	
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) 4 4 4 4 4 4 4 4	Wash contaminated clothing before reuse.	
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Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale $0 - 4$) Health = 2 Fire = 3 Reactivity = 0 HEALTH 2 Health = 2 Fire = 3 REACTIVITY Health = 2 Fire = 3 REACTIVITY Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	Store in a well-ventilated place. Keep container tightly closed.	
Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4)	Store in a well-ventilated place. Keep cool.	
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REACTIVITY Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. US		
• Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable.		
 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 	REACTIVITY 0 Reactivity = 0	
• PBT: Not applicable. • vPvB: Not applicable. • us—	• Other hazards	
• PBT: Not applicable. • vPvB: Not applicable. • us—	· Results of PBT and vPvB assessment	
• vPvB: Not applicable.		
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous	components:
-------------	-------------

	r ·····	
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	97.388%
CAS: 67-63-0	Isopropanol	2.493%
CAS: 64-19-7	Acetic Acid, Glacial	0.119%

4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a 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.
- After swallowing: If symptoms persist consult 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. • Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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. See Section 13 for disposal information.

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· Protective Act	ion Criteria for Chemicals	(Contd. of page 3
· PAC-1:	-	
CAS: 540-84-	1 2,2,4-Trimethylpentane (Iso-Octane)	230 ppm
CAS: 67-63-0	Isopropanol	400 ppm
CAS: 64-19-7	S: 64-19-7 Acetic Acid, Glacial	
· PAC-2:	-	<u>_</u>
CAS: 540-84-	1 2,2,4-Trimethylpentane (Iso-Octane)	830 ppm
CAS: 67-63-0	Isopropanol	2000* ppm
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
· PAC-3:		
CAS: 540-84-	: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane) 5000* ppr	
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm

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 against electrostatic charges.
- · 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.
- $\cdot \textit{Specific end use}(s) \textit{ No further relevant information available}.$

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- \cdot Components with limit values that require monitoring at the workplace:
- CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)
- TLV Long-term value: 300 ppm
- CAS: 67-63-0 Isopropanol
- PEL Long-term value: 980 mg/m³, 400 ppm
- REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
- TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

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	64-19-7 Acetic Acid, Glacial
	Long-term value: 25 mg/m ³ , 10 ppm
	Short-term value: 37 mg/m ³ , 15 ppm
	Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 15 ppm
	Long-term value: 10 ppm
-	dients with biological limit values:
	67-63-0 Isopropanol
	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific)
Addit	tional information: The lists that were valid during the creation were used as basis.
Expo	sure controls
	onal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work. I contact with the skin.
	l contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
	ratory protective device that is independent of circulating air.
Prote	ction of hands:
ſ	n la
1117	Protective gloves
T 1	leve we derived her de her inne ander en der eister date de en en her date en heden er date en en en dien.
Due i	love material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the inter-
	ical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves
	election of the suitable gloves does not only depend on the material, but also on further marks of quality ar
	s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
	love material can not be calculated in advance and has therefore to be checked prior to the application.
	tration time of glove material
The e	exact break through time has to be found out by the manufacturer of the protective gloves and has to b
obser	
Eye p	protection:
	Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical and c	hemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	$-107.4 ^{\circ}C(-161.3 ^{\circ}F)$
Boiling point/Boiling range:	98 °C (208.4 °F)
Flash point:	-12 °C (10.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	410 °C (770 °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:	1.1 Vol %
Upper:	6 Vol %
Vapor pressure at 20 °C (68 °F):	15 hPa (11.3 mm Hg)
Density at 20 °C (68 °F):	0.69238 g/cm ³ (5.77791 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	692.4 g/l / 5.78 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

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- · 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:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

· 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

- 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.
- \cdot Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even 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.

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[·] Toxicity

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Safety Data Sheet acc. to OSHA HCS

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Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT	Flammable liquids, n.o.s. (Octanes, Isopropanol
IMDG) FLAMMABLE LIQUID, N.O.S. (Octanes, Isopropanol), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (Octanes, Isopropanol)
Transport hazard class(es)	·
DOT	
PLANAAREE LOOD	
Class Label	3 Flammable liquids 3
IMDG	
Class Label	3 Flammable liquids 3
IATA	
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: Octane
Marine pollutant:	Yes Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code). EMS Number:	<i>F-E,S-E</i>
Stowage Category	B

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• 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: 5 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. (OCTANES ISOPROPANOL), 3, II

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
CAS: 67-63-0 Isopropanol	
· TSCA (Toxic Substances Control Act):	
2,2,4-Trimethylpentane (Iso-Octane)	ACTIVE
Isopropanol	ACTIVE
Acetic Acid, Glacial	ACTIVE
· Hazardous Air Pollutants	i
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	
· 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:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	
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• TLV (Threshold Limit Value)

CAS: 67-63-0 Isopropanol

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

None of the ingredients is listed.

• *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: 2,2,4-Trimethylpentane (Iso-Octane) Isopropanol Acetic Acid, Glacial · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. · 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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 regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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This information is based on our present knowledge. However, this shall not constitute a gue specific product features and shall not establish a legally valid contractual relationship.	arantee for any
Department issuing SDS: Environment protection department.	
Contact:	
Date of Preparation / Last Revision:	
Date of preparation / last revision	
Revision 1.2, 05/30/2024: Reviewed SDS for accuracy. MH/STN	
05/30/2024	
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)	
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	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
Aspiration Hazard 1: Aspiration hazard – Category 1 • * Data compared to the previous version altered.	