Printing date 05/20/2024

Reviewed on 05/20/2024

Identification	
Product identifier	
Trade name: <u>Sulfur Std. 30 ppm w/w</u> in Isooctane-Toluene	
Article number: MAP029	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
Aqua Solutions, Inc. 6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA 256 2596	
800-256-2586	
Information department: Technical Coordinator	
Sherman Nelson shermann@aquasolutions.org	
<i>Emergency telephone number:</i> <i>Chemtrec: 800-424-9300</i>	
Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
A	
GHS08 Health hazard	
-	H361 Suspected of damaging fertility or the unborn child
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
· · · · · · · · · · · · · · · · · · ·	
GHS07	
$\mathbf{\vee}$	
	H315 Causes skin irritation.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Label elements	
GHS label elements The product is classified and label Hazard pictograms	led according to the Globally Harmonized System (GHS).
GHS02 GHS07 GHS08	
011502 011507 011500	
Signal word Danger	

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

	(Contd. of page 1)
Hazard-determining components of labeling:	
2,2,4-Trimethylpentane (Iso-Octane)	
Toluene	
Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
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.	
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).	
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.	
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.	
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	<i>s</i> .
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 1	
Fire = 3	
\mathbf{U} Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 3 $Health = 3$	
FIRE 3 Fire = 3	
REACTIVITY 0 <i>Reactivity</i> = 0	
Other hazards	
Results of PBT and vPvB assessment	
Results of FDT and VFVD assessment PRT : Not applicable	

• **PBT:** Not applicable.

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

(Contd. of page 2)

76.088%

23.897%

0.016%

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

CAS: 108-88-3 Toluene

· Table of Nonhazardous Ingredients

CAS: 544-40-1 Butyl sulfide

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.

- After inhalation: 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

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: 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.

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Absorb with liq Dispose contan	naterial for containment and cleaning up: uid-binding material (sand, diatomite, acid binders, universal binders, sawdust). ninated material as waste according to section 13.	(Contd. of page 3)			
Ensure adequa	te ventilation.				
· Reference to of					
See Section 7 fe	or information on safe handling.				
See Section 8 fe	or information on personal protection equipment.				
See Section 13	for disposal information.				
· Protective Acti	on Criteria for Chemicals				
· PAC-1:					
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	230 ppm			
CAS: 108-88-3	Toluene	67 ppm			
· PAC-2:					
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	830 ppm			
CAS: 108-88-3	Toluene	560 ppm			
· PAC-3:	· PAC-3:				
CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	5000* ppm			
CAS: 108-88-3	Toluene	3700* 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: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

TLV Long-term value: 300 ppm

(Contd. on page 5)

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

	(Contd. of page 4
	: 108-88-3 Toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
	Long-term value: 20 ppm BEI, OTO, A4
Ingre	edients with biological limit values:
CAS:	: 108-88-3 Toluene
BEI	0.02 mg/L
	LD50 Intraperitoneal: blood
	Time: prior to last shift of workweek
	LD50: Toluene
	0.03 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Toluene
	0.3 mg/g creatinine
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: o-Cresol with hydrolysis (background)
	tional information: The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment: eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	a hands before breaks and at the end of work.
	protective clothing separately.
	d contact with the skin.
	d contact with the eyes and skin.
	thing equipment:
Breat	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
Brea t In ca	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.

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 \cdot *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.

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

(Contd. of page 5)

• 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

Information on basic physical and o	chemical properties
General Information	
Appearance:	T · · · 1
Form:	Liquid
Color: Odor:	Clear Organic
Odor: Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
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:	7 Vol %
Vapor pressure at 20 °C (68 °F):	29 hPa (21.8 mm Hg)
Density at 20 °C (68 °F):	0.72538 g/cm ³ (6.0533 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	e r): Not determined.
Viscosity:	
Dynamic:	Not determined.

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

		(Contd. of page 6
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	99.98 %	
	725.3 g/l / 6.05 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.
- · 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: No sensitizing effects known.
- · 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: 108-88-3 Toluene
- · 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.

(Contd. on page 8)

3

US

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

(Contd. of page 7)

· 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.

· Uncleaned packagings:

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

· UN-Number	
· DOT, IMDG, IATA	UN1993
\cdot UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (Octanes, Toluene)
· IMDG	FLAMMABLE LIQUID, N.O.S. (Octanes, Toluene), MARIN POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (Octanes, Toluene)
· Transport hazard class(es)	
·DOT	
PLAMAARE LOUD	
· Class	3 Flammable liquids
· Label	3
· IMDG	
· Class	3 Flammable liquids
· Label	3

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

	(Contd. of page
·IATA	
· Class	3 Flammable liquids
· Label	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)	: 33
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	В
· 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
2	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	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
	TOLUENE), 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: 108-88-3 Toluene	
• TSCA (Toxic Substances Control Act):	
2,2,4-Trimethylpentane (Iso-Octane)	ACTIVE
Toluene	ACTIVE
Butyl sulfide	ACTIVE
(Cont	d. on page 10)

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Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

(Contd. of page 9)

Π

II

A4

Hazardous Air Pollutants
 CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

CAS: 108-88-3 Toluene

· Proposition 65

 \cdot 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: 108-88-3 Toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

CAS: 108-88-3 Toluene

· TLV (Threshold Limit Value)

CAS: 108-88-3 Toluene

· 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) Toluene · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · 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.

(Contd. on page 11)

Printing date 05/20/2024

Reviewed on 05/20/2024

Trade name: Sulfur Std. 30 ppm w/w in Isooctane-Toluene

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. 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). 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. 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. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. 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.		(Contd. of page 10)
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). 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. 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. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.	Do not breathe dust/fume/gas/mist/vapors/spray.	
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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 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. 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.	Specific treatment (see on this label).	
IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. 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.	Do NOT induce vomiting.	
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. 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.	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
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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.	If skin irritation occurs: Get medical advice/attention.	
Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.	In case of fire: Use CO2, powder or water spray to extinguish.	
Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.	Store in a well-ventilated place. Keep container tightly closed.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	Store in a well-ventilated place. Keep cool.	
	Store locked up.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	Dispose of contents/container in accordance with local/regional/national/international regulation	<i>s</i> .
	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, 05/20/2024: Reviewed SDS for accuracy. MH/STN 05/20/2024
- 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 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 Aspiration Hazard 1: Aspiration hazard – Category 1 \cdot * Data compared to the previous version altered.