Printing date 12/10/2021 Reviewed on 12/10/2021

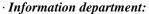
1 Identification

- · Product identifier
- · Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

· Article number: AM400

- · 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



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

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



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

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

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 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

07 GHS08

· Signal word Danger

(Contd. on page 2)

Printing date 12/10/2021 Reviewed on 12/10/2021

Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

(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 regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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

(Contd. on page 3)

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Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

(Contd. of page 2)

· 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)			64.971%	
	CAS: 108-88-3	Toluene	34.947%	
	· Table of Nonhazardous Ingredients			
CAS: 544-40-1 Butyl sulfide			0.083%	

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.

· 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).

(Contd. on page 4)

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in Toluene (30%) Isooctane (70%)

(Contd. of page 3)

Dispose contaminated material as waste according to item 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.

· Protective Action 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:		
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.
- · 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 item 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

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Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

(Contd. of page 4)

CAS: 108-88-3 Toluene

PEL Long-term value: 200 ppm

Ceiling limit value: 300; 500* ppm

*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

BEI, OTO, A4

· Ingredients 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)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

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

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

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

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Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

(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

Odor threshold: PH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Not Ignition temperature: Decomposition temperature: Not Auto igniting: Prod Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 29 % Density at 20 °C (68 °F):	uid
Appearance: Form: Color: Color: Odor: Odor threshold: Not PH-value: Not Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Auto igniting: Product Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 29 % Density at 20 °C (68 °F): Change: Color: Change: Not	ar aracteristic determined. determined. letermined. °C (230 °F) C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
Form: Color: Color: Codor: Codor: Codor threshold: PpH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Not Ignition temperature: Decomposition temperature: Not Auto igniting: Prod Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 29 % Density at 20 °C (68 °F): 0.74	ar aracteristic determined. determined. letermined. °C (230 °F) C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
Color: Odor: Odor: Odor threshold: Not pH-value: Not Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Not Ignition temperature: Decomposition temperature: Not Auto igniting: Prod Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 29 % Density at 20 °C (68 °F):	ar aracteristic determined. determined. letermined. °C (230 °F) C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
Odor: Odor threshold: Not PpH-value: Not Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Not Ignition temperature: Not Auto igniting: Prod Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 29 % Density at 20 °C (68 °F): Not 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 %	determined. determined. determined. letermined. °C (230 °F) C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
PH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: 110 Flash point: Flash point: Flammability (solid, gaseous): Not Ignition temperature: Decomposition temperature: Not Auto igniting: Prod Explosion: Pro mixt Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 29 h Density at 20 °C (68 °F):	determined. determined. °C (230 °F) C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Not Ignition temperature: Auto igniting: Danger of explosion: Fxplosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): 20 10 20 10 20	letermined. °C (230 °F) C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
Melting point/Melting range: Boiling point/Boiling range: 110 Flash point: Flash point: Ignition temperature: Decomposition temperature: Not Auto igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F):	C (230 °F) C (39.2 °F) applicable. C (770 °F) determined. duct is not selfigniting.
Boiling point/Boiling range: 110 Flash point: 4°C Flammability (solid, gaseous): Not Ignition temperature: 410 Decomposition temperature: Not Auto igniting: Production: Danger of explosion: Production Explosion limits: Lower: 1.1 Upper: 7 Vo Vapor pressure at 20 °C (68 °F): 29 ½ Density at 20 °C (68 °F): 0.74	C (230 °F) C (39.2 °F) applicable. C (770 °F) determined. duct is not selfigniting.
Flash point: Flammability (solid, gaseous): Not Ignition temperature: Decomposition temperature: Not Auto igniting: Production: Production Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F):	C (39.2 °F) applicable. °C (770 °F) determined. duct is not selfigniting.
Flammability (solid, gaseous): Not Ignition temperature: Decomposition temperature: Not Auto igniting: Production: Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): 0.74	applicable. °C (770 °F) determined. duct is not selfigniting.
Ignition temperature: 410 Decomposition temperature: Not Auto igniting: Production: Danger of explosion: Production: Explosion limits: Lower: 1.1 Upper: 7 Vo Vapor pressure at 20 °C (68 °F): 29 ½ Density at 20 °C (68 °F): 0.74	°C (770 °F) determined. duct is not selfigniting.
Decomposition temperature: Not Auto igniting: Production: Producti	determined. duct is not selfigniting.
Auto igniting: Production: Pr	duct is not selfigniting.
Danger of explosion: Promiss Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): 0.74	
## ## ## ## ## ## ## ## ## ## ## ## ##	duct is not explosive. However, formation of explosive air/van
Upper: 7 Ve · Vapor pressure at 20 °C (68 °F): 29 h · Density at 20 °C (68 °F): 0.74	tures are possible.
Upper: 7 Ve • Vapor pressure at 20 °C (68 °F): 29 h • Density at 20 °C (68 °F): 0.74	
• Vapor pressure at 20 °C (68 °F): 29 h • Density at 20 °C (68 °F): 0.74	Vol %
• Density at 20 °C (68 °F): 0.74	ol %
	hPa (21.8 mm Hg)
· Relative density Not	4341 g/cm³ (6.20376 lbs/gal)
	determined.
, up a contact	determined.
Evaporation rate Not	determined.
· Solubility in / Miscibility with Water: Full	ly miscible.
Partition coefficient (n-octanol/water): Not	determined.
· Viscosity: Dynamic: Not	

(Contd. on page 7)

Printing date 12/10/2021 Reviewed on 12/10/2021

Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

		(Contd. of page 6)
Kinematic:	Not determined.	
· Solvent content: Organic solvents: VOC content:	99.9 % 99.92 % 742.8 g/l / 6.20 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	3
· 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)

Printing date 12/10/2021 Reviewed on 12/10/2021

Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

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

· UN-Number · DOT, IMDG, IATA	UN1993
	6111770
· UN proper shipping name · DOT	Flammable liquids, n.o.s. (2,2,4-Trimethylpentane (Iso-Octano
- 1001	Toluene)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2,2,4-Trimethylpentane (Is
1,120, 11111	Octane), Toluene)
· Transport hazard class(es)	
· DOT	
R AMARIE LOUD	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
	3

(Contd. on page 9)

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Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

	(Contd. of page
Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
EMS Number:	F- E , S - E
· Stowage Category	B =
· 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
Excepted quantities (\widetilde{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. (2,2,
~	TRIMETHYLPENTANE (ISO-OCTANE), 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
· Hazardous Air Pollutants	
CAS: 540-84-1 2.2 A-Trimethylpentane (Iso-Octane)	

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

CAS: 108-88-3 Toluene

- · 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.

(Contd. on page 10)

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Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

(Contd. of page 9)

	(contain of page >)
· Chemicals known to cause developmental toxicity:	
CAS: 108-88-3 Toluene	

· Carcinogenic categories

	Curcinogenic curegories			
	· EPA (Environmental Protection Agency)			
Г	CAS: 540-84-1	2,2,4-Trimethylpentane (Iso-Octane)	II	
	CAS: 108-88-3	Toluene	II	
	· TLV (Threshold Limit Value)			
CAS: 108-88-3 Toluene			A4	

· 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







GHS02

GHS07 GHS08

· Hazard-determining components of labeling:

2,2,4-Trimethylpentane (Iso-Octane)

Toluene

· Hazard statements

· Signal word Danger

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.

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Trade name: Sulfur Std. 100.0 ppm w/w

in Toluene (30%) Isooctane (70%)

(Contd. of page 10)

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.

· 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

Revision 1.0, 11-16-2021: Updated product information. STN

Revision 2.0, 01-12-2020: Updated sections 1, 2 and 15 to meet Fanns new requirements 12/10/2021/-

· 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

Flam. Liq. 2: Flammable liquids – Category 2

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

Repr. 2: Reproductive toxicity – Category 2

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

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

Asp. Tox. 1: Aspiration hazard - Category 1