according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

#### Version number 2.0

Revision: 02.06.2021

#### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- 1.1 Product identifier
- Trade name: Mixture T.A.N. (toluene/isopropyl alcohol/water), according to ASTM D974
- Article number: ME0790
- · Registration number 01-2119471310-51-XXXX
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the preparation: Laboratory reagent
- 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com
- Regional representation: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com
- Further information obtainable from: technical department 1.4 Emergency telephone number: Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days) Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



Flam. Lig. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

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



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation. Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labelling:
- toluene propan-2-ol

- Hazard statements
- H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

- H361 Suspected of damaging fertility or the unborn child.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

- IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P310
- P321 Specific treatment (see on this label).
- Do NOT induce vomiting. P331

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

· 3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 990001-01-0	toluene	50-100%
EINECS: 203-625-9	Flam. Liq. 2, H225; Sepr. 2, H361; STOT RE 2 H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STO	<u>2,</u>
	H373; ASp. TOX. 1, H304; (!) Skin Irrit. 2, H315; STO	2 I
	SE 3, H336	.0.
CAS: 67-63-0	propan-2-ol	25-50%
EINECS: 200-661-7	🚸 Flam. Liq. 2, H225; 🚯 Eye Irrit. 2, H319; STOT S	E 3,
Reg.nr.: 01-2119457558-25-	H336	
XXXX		

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· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information: 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. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3** Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

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

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 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 item 13. Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 6.4 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.

## **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

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- 7.2 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 container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:

#### 67-63-0 propan-2-ol

- WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm
  - Long-term value: 999 mg/m<sup>3</sup>, 400 ppm
- · Additional information: The lists valid during the making were used as basis.

8.2 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. Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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.

#### Penetration time of glove material

wise choice

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye protection:



Tightly sealed goggles

## **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:
- Colour:
- Odour:
   Odour threshold:
- · pH-value:
- Change in condition Melting point/freezing point: Initial boiling point and boiling range: 82 °C

#### Flash point:

- Flammability (solid, gas):
- Ignition temperature:
- · Decomposition temperature:
- Auto-ignition temperature:
- Explosive properties:
- Explosion limits: Lower: Upper:
- Vapour pressure at 20 °C:
- · Density at 20 °C:
- Relative density
- Vapour density
- · Evaporation rate
- Solubility in / Miscibility with water:
- · Partition coefficient: n-octanol/water:
- Viscosity: Dynamic: Kinematic:
- Solvent content: Organic solvents: Water:
- 9.2 Other information

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Fluid Colourless Like alcohol Not determined.

Not determined.

Undetermined. 82 °C

9 °C

Not applicable.

425 °C

Not determined.

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

1.2 Vol % 12 Vol %

43 hPa

0.81 g/cm<sup>3</sup> Not determined. Not determined. Not determined.

Not miscible or difficult to mix.

Not determined.

Not determined. Not determined.

99.4 % 0.6 %

No further relevant information available.

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#### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

#### 990001-01-0 toluene

- Oral 0 LD50 5000 mg/kg (rat)
- Dermal LD50 12124 mg/kg (rabbit)
- Inhalative LC50/4 h 5320 mg/l (mouse)

#### Primary irritant effect:

- Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** May cause drowsiness or dizziness.
- · STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard

May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (German Regulation) (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.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.

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- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

<ul> <li>14.1 UN-Number</li> <li>ADR, IMDG, IATA</li> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>1993 FLAMMABLE LIQUID, N.O.S. (TOLU ISOPROPANOL (ISOPROPYL ALCOHOL))</li> <li>14.3 Transport hazard class(es)</li> <li>ADR, IMDG, IATA</li> <li>Class</li> <li>Class</li> <li>Class</li> <li>Class</li> <li>Sovago (Stranger Stranger Strang</li></ul>			SECTION 14: Transport information
<ul> <li>ADR, IMDG, IATA</li> <li>Class 3 Flammable liquids.</li> <li>Label 3</li> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA II</li> <li>14.5 Environmental hazards:</li> <li>Marine pollutant: No</li> <li>14.6 Special precautions for user Warning: Flammable liquids.</li> <li>Hazard identification number (Kemler code): 33</li> <li>EMS Number: F-E,S-E</li> <li>Stowage Category B</li> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.</li> <li>Transport/Additional information:</li> <li>ADR</li> <li>Limited quantities (LQ) 1L</li> <li>Transport category 2</li> <li>Tunnel restriction code D/E</li> <li>UN "Model Regulation": UN TOLUENE, ISOPROPANOL (ISOPRIALCOHOL)), 3, II</li> </ul>	LCOHOL)) .S. (TOLUENE	1993 FLAMMABLE LIQUID, N.O.S. ( ISOPROPANOL (ISOPROPYL ALCOHO FLAMMABLE LIQUID, N.O.S. (T	ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG, IATA
<ul> <li>Label</li> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code): 33</li> <li>EMS Number:</li> <li>F-E,S-E</li> <li>Stowage Category</li> <li>B</li> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> <li>Not applicable.</li> <li>Transport/Additional information:</li> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>UN "Model Regulation":</li> <li>UN "Model Regulation":</li> <li>UN 1993 FLAMMABLE LIQUID, N (TOLUENE, ISOPROPANOL (ISOPRIALCOHOL)), 3, II</li> </ul>	ed		
<ul> <li>ADR, IMDG, IATA</li> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code): 33</li> <li>EMS Number:</li> <li>F-E,S-E</li> <li>Stowage Category</li> <li>B</li> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> <li>Transport/Additional information:</li> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>Zunnel restriction code</li> <li>UN "Model Regulation":</li> <li>UN "Model Regulation":</li> </ul>	The wis		
<ul> <li>Stowage Category</li> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> <li>Not applicable.</li> <li>Transport/Additional information:</li> <li>ADR <ul> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> <li>UN "Model Regulation":</li> <li>UN 1993 FLAMMABLE LIQUID, N (TOLUENE, ISOPROPANOL (ISOPR ALCOHOL)), 3, II</li> </ul> </li> </ul>		No Warning: Flammable liquids. 33	ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code)
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> <li>UN "Model Regulation":</li> <li>UN 1993 FLAMMABLE LIQUID, N (TOLUENE, ISOPROPANOL (ISOPR ALCOHOL)), 3, II</li> </ul>	3	B	Stowage Category 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
ÁLCOHOL)), 3, II		2 D/E UN 1993 FLAMMABLE LIQUID	ADR Limited quantities (LQ) Transport category Tunnel restriction code
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wise	Se C	The wise	choice
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#### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

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

#### **SECTION 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.

#### Relevant phrases

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

#### Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- · Department issuing SDS: product safety department
- · Contact: msds@scharlab.com

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Skin corrosion/Irritation Category 2 Eye Irrit. 2: Serious eye damage/eye 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

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