



TUBA UNIVERSAL 10 L

WM 1203279

Order number: 0403279

Version 3.1

Revision Date 28.06.2018

Print Date 31.07.2019

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

1.1 Product identifier

Trade name : TUBA UNIVERSAL 10 L
Identification number : 61451

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Cleaning agent
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Labelling:

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

Hazardous components



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Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
propan-2-ol	67-63-0 200-661-7 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	$\geq 5 - < 10$
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	73296-89-6 277-362-3 01-2119489464-26	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL 10 - 20 % 2; H319 ≥ 20 % 1; H318	$\geq 2,5 - < 3$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
- In case of eye contact : Protect unharmed eye.
If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up and shovel.
Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. No special handling advice



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required.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed. Protect from frost.

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

propan-2-ol
67-63-0:

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 888 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 500 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 319 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 26 mg/kg

End Use: Consumers



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Sulfuric acid, mono-C12-16-alkyl esters, sodium salts
73296-89-6:

Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 89 mg/m³

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 4060 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 285 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 2440 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 85 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 24 mg/kg

PNEC

propan-2-ol
67-63-0:

: Fresh water
Value: 140,9 mg/l

Marine water
Value: 140,9 mg/l

Fresh water sediment
Value: 552 mg/kg

Marine sediment
Value: 552 mg/kg

Soil
Value: 28 mg/kg

intermittent release
Value: 140,9 mg/l

STP
Value: 2251 mg/l

Oral
Value: 160 mg/kg



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Sulfuric acid, mono-C12-16-alkyl esters, sodium salts 73296-89-6:

: Fresh water
Value: 0,0958 mg/l

Marine water
Value: 0,0096 mg/l

Fresh water sediment
Value: 3,37 mg/kg

Marine sediment
Value: 0,337 mg/kg

Soil
Value: 0,616 mg/kg

STP
Value: 1084 mg/l

intermittent release
Value: 0,036 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : not required under normal use

Hand protection

Material : not required under normal use

For prolonged or repeated contact use protective gloves.
Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1: 2003 (0,4 mm).

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : not required under normal use

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Appearance	: liquid
Colour	: milky
Odour	: characteristic
Odour Threshold	: No data available
pH	: ca. 8,1, at 20 °C
Melting point/range	: No data available
Boiling point/boiling range	: No information available.
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,994 g/cm ³ at 20 °C
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity



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Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Skin corrosion/irritation : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation : No data available

Further information : No data available

Components:

propan-2-ol

67-63-0:

Acute oral toxicity : LD50 Oral Rat: 5.840 mg/kg
Method: OECD Test Guideline 401

LD50 Oral Rat: 4.570 mg/kg

Acute inhalation toxicity : LC50 Rat, female: 47,5 mg/l
Exposure time: 8 h
Method: OECD Test Guideline 403



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LC50 Rat: 72,6 mg/l
Exposure time: 4 h

LC50 Mouse: 27,2 mg/l
Exposure time: 4 h

LC50 Rat: 25 mg/l
Exposure time: 6 h
Method: OECD Test Guideline 403

LC50 Rat: 30 mg/l
Exposure time: 4 h

LC50 Rat: 10000 ppm
Exposure time: 6 h

Acute dermal toxicity : LD50 Rabbit: 12.800 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 12.870 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 13.900 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 13.400 mg/kg

Skin corrosion/irritation : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation : Species: Rabbit
Result: irritating

Respiratory or skin sensitisation : Test Method: Buehler Test
Species: Guinea pig
Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test
Test species: Salmonella typhimurium
with and without metabolic activation
Result: negative

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts
73296-89-6:

Acute oral toxicity : LD50 Oral Rat: > 2.000 mg/kg



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Method: OECD Test Guideline 401

Acute dermal toxicity	: LD50 Rabbit: > 2.000 mg/kg
Skin corrosion/irritation	: Result: irritating Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

SECTION 12: Ecological information

12.1 Toxicity

Product:

Components:

**propan-2-ol
67-63-0:**

Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 h LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h Test Type: static test GLP: no
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 13.299 mg/l Exposure time: 48 h EC50 (Daphnia magna (Water flea)): 9.714 mg/l Exposure time: 24 h EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test GLP: no (Daphnia (water flea)): > 10.000 mg/l Method: OECD Test Guideline 202 NOEC (Daphnia magna (Water flea)): 30 mg/l Exposure time: 21 d EC50 (Daphnia magna (Water flea)): 10.000 mg/l Exposure time: 48 h
Toxicity to algae	: IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l



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Exposure time: 72 h
Test Type: Growth inhibition

EC50 (*Pseudokirchneriella subcapitata* (microalgae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
GLP: no

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1.000 mg/l
Exposure time: 72 h

EC50 (*Scenedesmus subspicatus*): > 100 mg/l
Exposure time: 72 h
Test Type: static test

Toxicity to bacteria : EC50 (*Aliivibrio fischeri*): 17.700 mg/l
Exposure time: 5 min
GLP:

EC10 (*Pseudomonas putida*): 5.175 mg/l
Exposure time: 18 h
Method: DIN 38412
GLP:

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts 73296-89-6:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): > 10 - 100 mg/l
Method: OECD Test Guideline 203

LC50 (Fish): 3,6 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 10 - 100 mg/l

EC50 (*Daphnia* (water flea)): 4,7 mg/l
Exposure time: 48 h

NOEC (*Daphnia* (water flea)): 2,5 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (*Scenedesmus subspicatus*): 10 - 100 mg/l

Toxicity to bacteria : EC0 (*Pseudomonas putida*): > 100 mg/l

Toxicity to fish (Chronic toxicity) : NOEC: 1 - 10 mg/l
Species: *Pimephales promelas* (fathead minnow)

NOEC: 0,11 mg/l
Exposure time: 34 d
Species: Fish

NOEC: 0,35 mg/l
Exposure time: 34 d
Species: Fish



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1 - 10 mg/l
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Components:

propan-2-ol 67-63-0:

Biodegradability : Result: rapidly biodegradable
Biodegradation: 95 %
Exposure time: 21 d
Method: OECD 301 E

Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 53 %
Exposure time: 5 d

Result: rapidly biodegradable
Biodegradation: > 70 %
Exposure time: 10 d
GLP: no

Biodegradation: 99,9 %
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts 73296-89-6:

Biodegradability : Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 92 %
Exposure time: 28 d
Method: OECD 301 B

12.3 Bioaccumulative potential

Components:

propan-2-ol 67-63-0:

Bioaccumulation : Bioconcentration factor (BCF): 3



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Remarks: No bioaccumulation is to be expected (log Pow \leq 4).

Partition coefficient: n-octanol/water : log Pow: 0,05

12.4 Mobility in soil

Components:

propan-2-ol

67-63-0:

Distribution among environmental compartments : Koc: 25Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

propan-2-ol

67-63-0:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code : European Waste Catalogue
200129
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.



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SECTION 14: Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not regulated as a dangerous good

IATA

Not dangerous goods

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable



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	: Directive 96/82/EC does not apply
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. TA Luft List (Germany)	: Not applicable
	: Total dust: Not applicable
	: Inorganic substances in powdered form: Not applicable
	: Inorganic substances in vapour or gaseous form: Not applicable
	: Organic Substances: : portionClass 1: < 0,01 %
	: Carcinogenic substances: Not applicable
	: Mutagenic: Not applicable
	: Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	: Percent volatile: 7,01 % 483,87 g/l VOC content excluding water
Volatile organic compounds (VOC) content	: Percent volatile: 7,01 % 69,64 g/l VOC content valid only for coating materials used on wood surfaces
according to Detergents Regulation EC 648/2004	: <5% Anionic surfactants, Soap, Perfumes, METHYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE, HEXYL CINNAMAL, CITRAL
GISBAU (D)	: GT 10

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Further information

Classification procedure:

Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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