Printing date 07/08/2020

Reviewed on 07/08/2020

# **1** Identification

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#### · Product identifier

• Trade name: FINE CLEANER (0,5 L)

• Article number: 1 35343

· Application of the substance / the mixture Degreasing agent.

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: RETECH, s.r.o. Vackova 1541/4 155 00 Praha 5 - Stodůlky Czech Republic Tel: +420327596428 info@retech.cz, www.retech.com

• **Emergency telephone number:** RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)

# 2 Hazard(s) identification

#### · Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.Eye Irrit. 2A H319 Causes serious eye 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



· Signal word Danger

Hazard-determining components of labeling: propan-2-ol

#### · Hazard statements

H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.	
· Classification system: · NFPA ratings (scale 0 - 4)	
Health = 2 Fire = 3 Reactivity = 0	
· WHMIS-ratings (scale 0 - 4)	
HEALTH12Health = *2FIRE3Fire = 3REACTIVITY0Reactivity = 0	
<ul> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable. vPvB: Not applicable.</li> </ul>	
<b>3</b> Composition/information on ingredients	
• Chemical characterization: Mixtures • Description: Mixture: consisting of the following components.	
· Dangerous components:	
67-63-0 propan-2-ol	75-<100%
5593-70-4 tetra-n-butoxytitanium	1-<2.5%

#### **4** First-aid measures

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· Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- $\cdot$  After skin contact: Generally the product does not irritate the skin.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Water haze
- · Fire-extinguishing powder
- · Carbon dioxide
- Alcohol resistant foam
- · For safety reasons unsuitable extinguishing agents: Water with full jet

• Special hazards arising from the substance or mixture No further relevant information available.

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# Safety Data Sheet acc. to OSHA HCS

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# **Trade name: FINE CLEANER**

· Advice for firefighters

• Protective equipment: Mount respiratory protective device.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
  Environmental precautions: Do not allow product to reach sewage system or any water course.
- Do not anow product to reach sewage system of any water cours

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
- **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

Trotterive Action Criteria for Citemicais	
· PAC-1:	
67-63-0 <mark>propan-2-ol</mark>	400 ppm
5593-70-4 tetra-n-butoxytitanium	0.67 ppm
· PAC-2:	
67-63-0propan-2-01	2000* ppm
5593-70-4 tetra-n-butoxytitanium	7.4 ppm
· PAC-3:	
67-63-0propan-2-ol	12000** ppm
5593-70-4 tetra-n-butoxytitanium	44 ppm

# 7 Handling and storage

#### · Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- **Information about protection against explosions and fires:** Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location. • Information about storage in one common storage facility:
- Observe official regulations on storing packagings with pressurized containers.
- 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.

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· Addi	itional information about design of technical systems: No further data; see item 7.
	trol parameters
	ponents with limit values that require monitoring at the workplace:
	following constituent is the only constituent of the product which has a PEL, TLV or other
	nmended exposure limit. is time, the remaining constituent has no known exposure limits.
	3-0 propan-2-ol
	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm
	Long-term value: 492 mg/m <sup>3</sup> , 200 ppm
	BEI
· Ingr	edients with biological limit values:
-	3-0 propan-2-ol
BEI	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)
· Addi	itional 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.
	hands before breaks and at the end of work.
	d contact with the eyes. d contact with the eyes and skin.
	thing equipment:
	suitable respiratory protective device in case of insufficient ventilation.
	r A2/P2
	ection of hands:
1100	cetton of nances.
1	n de la companya de l
- Unit	Protective gloves
Calv	ant register t closes
	ent resistant gloves ction of the glove material on consideration of the penetration times, rates of diffusion and the degrada
	erial of gloves
	0
	selection of the suitable gloves does not only depend on the material, but also on further marks of ty and varies from manufacturer to manufacturer. As the product is a preparation of several substances
quan the r	esistance of the glove material can not be calculated in advance and has therefore to be checked prior to
	pplication.
	le rubber, NBR
	mmended thickness of the material: $\geq 0.5 \text{ mm}$
rene	tration time of glove material

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

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#### Trade name: FINE CLEANER

(Contd. of page 4) • Eye protection: Safety glasses Tightly sealed goggles · Body protection: Use protective suit. 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Colorless · Odor: Alcohol-like · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition -89.5 °C (-129.1 °F) Melting point/Melting range: **Boiling point/Boiling range:** 82 °C (179.6 °F) · Flash point: 13 °C (55.4 °F) · Flammability (solid, gaseous): Not applicable. 425 °C (797 °F) · Ignition temperature: • Auto igniting: Product is not selfigniting. · Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. · Explosion limits: 2 Vol % Lower: 12 Vol % **Upper:** · Vapor pressure at 20 °C (68 °F): 43 hPa (32.3 mm Hg) · Density at 20 °C (68 °F): 0.79 g/cm3 (6.593 lbs/gal) Not determined. · Relative density · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water at 20 °C (68 °F): 1 g/l· Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic at 20 °C (68 °F): 2.43 mPas **Kinematic:** Not determined. · Solvent content: 100.0 % **Organic solvents:** 0.0 % **Solids content:** 

#### 10 Stability and reactivity

· Reactivity No further relevant information available.

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· Chemical stability

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· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

 $\cdot$  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:

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# $\cdot$ LD/LC50 values that are relevant for classification:

5593-70-4		butoxytitanium
Inhalative	LC50 (6h)	5840 mg/kg (Rat) 13900 mg/kg (Rabbit) 25000 mg/m3 (Rat)
Dermal	LD50	13900 mg/kg (Rabbit)
Oral	LD50	5840 mg/kg (Rat)
67-63-0 propan-2-ol		

		J
Oral	LD50	>2000 mg/kg (Rat)
	NOAEL	125 mg/kg/d (Rat)
Dermal	LD50	5300 mg/kg (Rabbit)
Inhalative	LC50/4 h	20100 mg/l (Rat)
	LC50	20100 mg/L (Rat)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: 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	<sup>•</sup> Research on	Cancer)

67-63-0 propan-2-ol

· 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	· Toxicity		
· Aquatic toxicity:			
67-63-0 propan-2-ol			
LOEC (8 days)	1000 mg/l (Algae)		
LC50 (96h)	9640 mg/l (Pimephales promelas)		
LC50 (24h)	9714 mg/l (Daphnia magna)		
5593-70-4 tetra-	5593-70-4 tetra-n-butoxytitanium		
NOEC (21 days)	4 mg/l (Daphnia magna)		
LC50 (96h)	1825 mg/l (Fish)		
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	(Contd. of page 6)
EC50 (48h) 1300 mg/l (Daphnia mag	na)
EC50 (96h) 225 mg/l (Algae)	
<ul> <li>Persistence and degradability No furthe</li> <li>Behavior in environmental systems:</li> <li>Bioaccumulative potential No further relevant inform</li> <li>Mobility in soil No further relevant inform</li> <li>Additional ecological information:</li> <li>General notes:</li> <li>Water hazard class 1 (Self-assessment): sl</li> <li>Do not allow undiluted product or large q</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>Other adverse effects No further relevant</li> </ul>	levant information available. mation available. lightly hazardous for water uantities of it to reach ground water, water course or sewage system.
13 Disposal considerations	
· Waste treatment methods · Recommendation:	isehold garbage. Do not allow product to reach sewage system.
• Recommendation: Disposal must be made	le according to official regulations.
14 Transport information	
<ul> <li>· UN-Number</li> <li>· DOT, ADR, ADN, IMDG</li> <li>· IATA</li> </ul>	UN1993 UN1090
<ul> <li>· UN proper shipping name</li> <li>· DOT</li> <li>· ADR, ADN</li> <li>· IMDG</li> </ul>	Flammable liquids, n.o.s. (Isopropanol) UN1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)) FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL
· IATA	(ISOPROPYL ALCOHOL)) ACETONE
<ul> <li>Transport hazard class(es)</li> <li>DOT</li> <li>3</li> </ul>	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG, IATA	3 Flammable liquids
· Class · Label	3
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	(Contd. of page
ADN	
ADN/R Class:	3 Flammable liquids
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler c	
EMS Number:	F-E, <u>S-E</u>
Stowage Category	В
Transport in bulk according to Annex II	of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S.
č	(ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous

substances): None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

67-63-0 propan-2-ol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE. • Hazardous Air Pollutants None

of the ingredients is listed.

#### · Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for

females: None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for

males: None of the ingredients is listed.

· Chemicals known to cause developmental

toxicity: None of the ingredients is listed.

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A4

Cancerogenity categories
 EPA (Environmental Protection

Agency) None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

67-63-0 propan-2-ol

· MAK (German Maximum Workplace

Concentration) None of the ingredients is listed.

 $\cdot$  NIOSH-Ca (National Institute for Occupational Safety and

Health) None of the ingredients is listed.

#### · National regulations:

Class Share in %

NK 100

· 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.

#### · Date of preparation / last revision 07/08/2020

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

US