Printing date 28.07.2016 Version: 5 Revision: 28.07.2016

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

· 1.1 Product identifier

· Trade name: Ena Tender Stain Cleaner

· Article number: ETSCL

• **CAS Number:** 67-63-0

• **EC number:** 200-661-7

• Index number: 603-117-00-0

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

No further relevant information available.

- · Application of the substance / the mixture Cleaning material/ Detergent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Micerium spa., Via G. Marconi, 83 - 16036 Avegno (GE), Italy, Tel.: +39-0185-7887870, Fax: +39-0185-7887970

- · Further information obtainable from: Dr. Eugenio Miceli
- · 1.4 Emergency telephone number:

Poison Control Center San Martino Hospital (Genoa, Italy) Tel.: +39-010-352808 (available 24 h)

SECTION 2: Hazards identification

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

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

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

propan-2-ol

· Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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Trade name: Ena Tender Stain Cleaner

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- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms





GHS02 G

- · Signal word Danger
- · Hazard-determining components of labelling: propan-2-ol
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- \cdot **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description:

67-63-0 propan-2-ol

- · Identification number(s):
- EC number: 200-661-7
- · Index number: 603-117-00-0

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area and lay down.

Take affected persons out into the fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eve contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents Water with full jet.

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(Contd. of page 2)

· 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

In case of fire, the following can be released:

Carbon monoxide (CO)

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid eye and skin contact with the substance.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

- 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).

Ensure adequate ventilation.

· 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

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

 $\cdot \textit{Information about fire - and explosion protection:} \\$

Use only in explosion protected area.

Use explosion-proof apparatus / fittings and spark-proof tools.

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Storage between 10 °C and 25 °C.

Provide solvent resistant, sealed floor.

- · Information about storage in one common storage facility: Store away from flammable substances.
- $\cdot \textit{Further information about storage conditions:} \\$

Keep receptacle tightly sealed.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 4)

Trade name: Ena Tender Stain Cleaner

(Contd. of page 3)

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

BAT-value (Parameter: acetone): 50 mg/l (U,B/b)

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 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

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

· Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

Filter AX.

- · Protection of hands: Solvent resistant gloves
- · Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

· Penetration time of glove material

 $0.1 - 0.2 \, mm$

Penetration time: 5 min.

- · Eye protection: Tightly sealed goggles.
- · Body protection:

Solvent resistant protective clothing (Only when handling large quantities)

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- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Clear

Odour: Alcohol-like
Odour threshold: Not determined.

neutral

· pH-value:

· Change in condition

Melting point/Melting range: -89.5 °C Boiling point/Boiling range: 82 °C

· Flash point: 13 °C

· Flammability (solid, gaseous) Not applicable.

• Ignition temperature: 425 °C

· Decomposition temperature: Not determined.

(Contd. on page 5)

Trade name: Ena Tender Stain Cleaner

	(Contd. of page	
· Self-igniting:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.	
· Explosion limits:		
Lower:	2 Vol %	
Upper:	12 Vol %	
· Vapour pressure at 20 °C:	43 hPa	
Density at 20 °C:	0.785 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water at 20 °C:	1 g/l	
Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
dynamic at 20 °C:	2.43 mPas	
kinematic:	Not determined.	
Organic solvents:	100.0 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: Can be distilled without decomposing at normal pressure
- · 10.3 Possibility of hazardous reactions

Reacts with strong acids

Reacts with oxidizing agents

- · 10.4 Conditions to avoid No further relevant information available.
- \cdot 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 1	· LD/LC50 values relevant for classification:				
67-63-0 propan-2-ol					
Oral	LD50	5045 mg/kg (rat)			
Dermal	LD50	12800 mg/kg (rbt)			
Inhalative	LC50/4 h	30 mg/l (rat)			

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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 Based on available data, the classification criteria are not met.

(Contd. on page 6)

Trade name: Ena Tender Stain Cleaner

(Contd. of page 5)

· STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- Type of test Effective concentration Method Assessment fish LC50 > 100 mg/l
- · 12.2 Persistence and degradability No further relevant information available.
- · Other information: The product is easily biodegradable.
- · 12.3 Bioaccumulative potential

Soluble in water.

Disappears within one day through evaporation and dissolution.

No bio-accumulation.

- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Behaviour in sewage processing plants:
- · Type of test Effective concentration Method Assessment

EC50 > 100 mg/l

- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

07 01 04* other organic solvents, washing liquids and mother liquors

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA UN1219
- · 14.2 UN proper shipping name
- · ADR 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
- · IMDG, IATA ISOPROPANOL (ISOPROPYL ALCOHOL)

(Contd. on page 7)

Trade name: Ena Tender Stain Cleaner

(Contd. of page 6) · 14.3 Transport hazard class(es) $\cdot ADR$ · Class 3 (F1) Flammable liquids. ·Label · IMDG, IATA · Class 3 Flammable liquids. · Label · 14.4 Packing group II · ADR, IMDG, IATA · 14.5 Environmental hazards: · Marine pollutant: No Warning: Flammable liquids. · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: F-E,S-D· Stowage Category R· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · 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 · Transport category · Tunnel restriction code D/E· IMDG · Limited quantities (LQ) 1LCode: E2 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II · UN "Model Regulation":

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 Substance is not listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 8)

Trade name: Ena Tender Stain Cleaner

(Contd. of page 7)

- · National regulations
- · Breakdown regulations:

Substance group 2 (highly flammable liquids), please note quantity limits.

· Technical instructions (air):

Class	Share in %
NK	75-100

- · Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- · 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.

- · Department issuing SDS: Micerium S.p.a.
- · Contact: Dr. Eugenio Miceli
- · 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 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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial 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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

* Data compared to the previous version altered.

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