Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 1 / 17

Page n. 1 / 17 Replaced revision:3 (Dated 2/26/2021) ΕN

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification

1.1. Product identifier

Code: STAIN_RESCUE_REMOVER
Product name STAIN RESCUE REMOVER

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

Intended use SOLVENT BASED CLEANER

 Identified Uses
 Industrial
 Professional
 Consumer

 CLEANING AND WASHING
 ✓
 ✓

1.3. Details of the supplier of the safety data sheet

Name TENAX SPA
Full address Via I Maggio, 226
District and Country 37020 Volargne

Italy

Tel. +39 045 6887593 Fax +39 045 6862456

e-mail address of the competent person

responsible for the Safety Data Sheet

msds@tenax.it

Supplier: Tenax Usa

7606 Whitehall Executive Center Drive Suite 400, 28273 Charlotte NC, US

(VR)

Tel. 001 7045831173 - Fax 001 7045833166

info@tenaxusa.com

1.4. Emergency telephone number

For urgent inquiries refer to Infotrac

US and Canada: 1-800-535-5053

Int'l: 1-352-323-3500 info@infotrac.net

2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Flammable liquid, category 2 Reproductive toxicity, category 2

Aspiration hazard, category 1

Specific target organ toxicity - repeated exposure,

category 2

Eye irritation, category 2

Specific target organ toxicity - single exposure,

Danger

category 3

Signal words:

Hazard pictograms:



Highly flammable liquid and vapour.

Suspected of damaging fertility or the unborn child.

May be fatal if swallowed and enters airways.

May cause damage to organs through prolonged or repeated

exposure.

Causes serious eye irritation.

May cause drowsiness or dizziness.



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 2 / 17 Replaced revision:3 (Dated 2/26/2021)

2. Hazards identification .../>>

Hazard statements:

H225 Highly flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.
H304 May be fatal if swallowed and enters airways.

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

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:

Prevention: **P210**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust / fume / gas / mist / vapours / spray

P202 Do not handle until all safety precautions have been read and understood.

P242 Use only non-sparking tools.

P201 Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P271 Use only outdoors or in a well-ventilated area.
P264 Wash the hands thoroughly after handling.
P240 Ground / bond container and receiving equipment.
P243 Take precautionary measures against static discharge.

P241 Use explosion-proof electrical / ventilating / lighting / . . . / equipment.

Response:

P331 Do NOT induce vomiting.

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

do. Continue rinsing.

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

P308+P313 IF exposed or concerned: Get medical advice / attention.

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .

P312 Call a POISON CENTER / doctor / . . . / if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice / attention.

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

P370+P378 In case of fire: use CO2, sand, powder to extinguish.

Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

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

P405 Store locked up.

Disposal:

P501 Dispose of contents / container according to applicable law.

2.2. Other hazards

Additional hazards

Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification:

PROPAN-2-OL

INDEX 603-117-00-0 $20 \le x < 22$ Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific

target organ toxicity - single exposure, category 3 H336

EC 200-661-7 CAS 67-63-0

REACH Reg. 01-2119457558-25

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, <2% aromatics

13.5 ≤ x < 14.5 Aspiration hazard, category 1 H304

EC 940-726-3 CAS 185857-36-7 REACH Reg. 01-2120083063-63

ETHYL ACETATE

INDEX 607-022-00-5 12.5 \leq x < 13.5 Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific

target organ toxicity - single exposure, category 3 H336

EC 205-500-4 CAS 141-78-6

REACH Reg. 01-2119475103-46



TENAX SPA STAIN RESCUE REMOVER

Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 3 / 17 Replaced revision:3 (Dated 2/26/2021)

3. Composition/information on ingredients .../>>

METHYLETHYLKETONE

INDEX 606-002-00-3 8.5 ≤ x < 9.5 Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific

target organ toxicity - single exposure, category 3 H336

EC 201-159-0 CAS 78-93-3

REACH Reg. 01-2119457290-43-XXXX

HYDROCARBONS, C9-C11, N-ALKANS, ISOALKANS, CYCLICS, <2% AROMATICS

 $8.5 \le x < 9.5$ Flammable liquid, category 3 H226, Aspiration hazard, category 1 H304,

Specific target organ toxicity - single exposure, category 3 H336

EC 919-857-5 CAS 64742-48-9 REACH Reg. 01-2119463258-33

1-METHYL-2-METHOXYETHYL ACETATE

INDEX 607-195-00-7 $4 \le x < 4.5$ Flammable liquid, category 3 H226, Specific target organ toxicity - single

exposure, category 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29

TOLUENE

INDEX 601-021-00-3 $4 \le x < 4.5$ Flammable liquid, category 2 H225, Reproductive toxicity, category 2 H361,

Aspiration hazard, category 1 H304, Specific target organ toxicity - repeated exposure, category 2 H373, Skin irritation, category 2 H315, Specific target

organ toxicity - single exposure, category 3 H336

EC 203-625-9 CAS 108-88-3

REACH Reg. 01-2119471310-51

ETHANOL

INDEX 603-002-00-5 $3.5 \le x < 4$

EC 200-578-6 CAS 64-17-5

REACH Reg. 01-2119457610-43

Flammable liquid, category 2 H225

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

^{*} There is a batch to batch variation.



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 4 / 17 Replaced revision:3 (Dated 2/26/2021)

5. Fire-fighting measures .../>>

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

Combustion products: mainly COx.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 5 / 17 Replaced revision:3 (Dated 2/26/2021)

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

USA NIOSH-REL NIOSH publication No. 2005-149, 3th printing, 2007.

USA OSHA-PEL Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.

USA CAL/OSHA-PEL California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits

(PELs).

EU OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)

2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2009/I61/EU; Directi

 $2006/15/EC; \ Directive\ 2004/37/EC; \ Directive\ 2000/39/EC; \ Directive\ 98/24/EC; \ Directive\ 2000/39/EC; \ Directi$

91/322/EEC.

TLV-ACGIH ACGIH 2022

	HYE	ROCARBO	NS, C9-C11, N	ALKANS,	ISOALKANS, C	YCLICS, <2% AROMATICS
Threshold Limit	Value					
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	1200	197			

	DIPROPYLENE GLYCOL MONOMETHYL ETHER										
Threshold Limit	Value										
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
OEL	EU	308	50			SKIN					
TLV-ACGIH	-		50								
OSHA	USA	600	100			SKIN					
CAL/OSHA	USA	600	100	900	150	SKIN					
NIOSH	USA	600	100	900	150	SKIN					

	2-METHOXY-1-METHYLETHYL ACETATE										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
OEL	EU	275	50	550	100	SKIN					
CAL/OSHA	USA	541	100	811	150	SKIN					

				то	LUENE	
Threshold Limit \	Value					
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH	-		20			
OSHA	USA		200		300	
CAL/OSHA	USA	37	10	560	150	SKIN
NIOSH	USA	375	100	560	150	

				ETI	HANOL		
Threshold Limit \	/alue						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-			1884	1000		
OSHA	USA	1900	1000				
CAL/OSHA	USA	1900	1000				
NIOSH	USA	1900	1000				



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 6 / 17 Replaced revision:3 (Dated 2/26/2021)

8. Exposure controls/personal protection .../>>

PROPAN-2-OL									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH	-	492	200	983	400				
OSHA	USA	980	400						
CAL/OSHA	USA	980	400	1225	500				
NIOSH	USA	980	400	1225	500				

METHYLETHYLKETONE										
Threshold Limit	Value									
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV-ACGIH	-	590	200	885	300					
OEL	EU	600	200	900	300					
OSHA	USA	590	200							
CAL/OSHA	USA	590	200	885	300					
NIOSH	USA	590	200	885	300					

				ETHYL	ACETATE		
Threshold Limit \	Value						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	1441	400				
OEL	EU	734	200	1468	400		
OSHA	USA	1400	400				
CAL/OSHA	USA	1400	400				
NIOSH	USA	1400	400				

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

2-METHOXY-1-METHYLETHYL ACETATE

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/015-methoxypropylacetate 2016.pdf

TOLUENE

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/017-toluene 2016.pdf

ETHANOL

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/063-Ethanol_2016.pdf

PROPAN-2-OL

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/066-Propan-2-ol 2016.pdf

METHYLETHYLKETONE

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/105-Butan-2-one 2016.pdf

ETHYL ACETATE

Sampling Method:https://amcaw.ifa.dguv.de/substance/methoden/050-ethyl_acetate_2016.pdf

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 7 / 17 Replaced revision:3 (Dated 2/26/2021)

8. Exposure controls/personal protection .../>>

1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

HAND PROTECTION: Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time> 480 minutes.

Material thickness:

NITRILE short contact> 0.38 mm prolonged contact> 0.55 mm FLUOROELASTOMER short contact> 0.50 mm prolonged contact> 1.50 mm

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information

Appearance liquid Colour colourless

Odour characteristic of solvent

Odour threshold not available

pH 2.1

Melting point / freezing point not available Initial boiling point not available Boiling range not available

Flash point -6 °C (21,2 °F)

Evaporation rate not available Flammability not available Lower inflammability limit not available Upper inflammability limit not available Lower explosive limit not available Upper explosive limit not available Vapour pressure not available Vapour density not available Relative density 0.85 g/cm3

Solubility soluble in organic solvents

Partition coefficient: n-octanol/water not available
Auto-ignition temperature not available
Decomposition temperature not available
Viscosity not available
Explosive properties not available

Oxidising properties **9.2. Other information**

VOC: 78,65 % - 668,53 g/litre

not available

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

TOLUENE

Avoid exposure to: light.



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 8 / 17 Replaced revision:3 (Dated 2/26/2021)

10. Stability and reactivity .../>>

METHYLETHYLKETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids. sulphur.

ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

METHYLETHYLKETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHANOL

Avoid exposure to: sources of heat,naked flames.

METHYLETHYLKETONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

METHYLETHYLKETONE

Incompatible with: strong oxidants,inorganic acids,ammonia,copper,chloroform.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,chlorosulphuric acid.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 9 / 17 Replaced revision:3 (Dated 2/26/2021)

11. Toxicological information .../>>

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

HYDROCARBONS, C9-C11, N-ALKANS, ISOALKANS, CYCLICS, <2% AROMATICS

 LD50 (Oral):
 > 5000 mg/kg rat

 LD50 (Dermal):
 > 5000 mg/kg rabbit

 LC50 (Inhalation vapours):
 > 4951 mg/l/4h rat

2-METHOXY-1-METHYLETHYL ACETATE

 LD50 (Oral):
 8530 mg/kg Rat

 LD50 (Dermal):
 > 5000 mg/kg Rat

 LC50 (Inhalation vapours):
 > 23.5 mg/l/4h Ratto

TOLUENE

 LD50 (Oral):
 5580 mg/kg Rat

 LD50 (Dermal):
 12124 mg/kg Rabbit

 LC50 (Inhalation vapours):
 28.1 mg/l/4h Rat

ETHANOL

LD50 (Oral): > 5000 mg/kg Rat LC50 (Inhalation vapours): 117 mg/l/4h Rat

PROPAN-2-OL

 LD50 (Oral):
 4710 mg/kg Rat

 LD50 (Dermal):
 12800 mg/kg Rat

 LC50 (Inhalation vapours):
 72.6 mg/l/4h Rat

METHYLETHYLKETONE

 LD50 (Oral):
 2737 mg/kg Rat

 LD50 (Dermal):
 6480 mg/kg Rabbit

 LC50 (Inhalation vapours):
 23.5 mg/l/8h Rat

ETHYL ACETATE

 LD50 (Oral):
 5620 mg/kg ratto

 LD50 (Dermal):
 > 20000 mg/kg coniglio

 LC50 (Inhalation vapours):
 > 6000 ppm/4h ratto

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, <2% aromatics

 LD50 (Oral):
 > 5000 mg/kg Ratto

 LD50 (Dermal):
 > 5000 mg/kg Coniglio

2-METHOXY-1-METHYLETHYL ACETATE
Oral route: OECD Test Guideline 401 method

SKIN CORROSION / IRRITATION



TENAX SPA STAIN RESCUE REMOVER

Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 10 / 17 Replaced revision:3 (Dated 2/26/2021)

11. Toxicological information .../>>

Repeated exposure may cause skin dryness or cracking.

2-METHOXY-1-METHYLETHYL ACETATE OECD Test Guideline 404, Guinea Pig

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

2-METHOXY-1-METHYLETHYL ACETATE OECD Test Guideline 405, Rabbit

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Skin sensitization

2-METHOXY-1-METHYLETHYL ACETATE

Species: Guinea pig

Method: OECD Test Guideline 406 Result: It is not a skin sensitiser.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Carcinogenicity Assessment:

67-63-0 PROPAN-2-OL

IARC:3 108-88-3 TOLUENE

ACGIH:: A4

IARC:3

64-17-5 ETHANOL

ACGIH:: A3

IARC:1

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The ÚS Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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

Target organs

TOLUENE

Ototoxicity, Central nervous system

ASPIRATION HAZARD

Toxic for aspiration



TENAX SPA STAIN RESCUE REMOVER

Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 11 / 17 Replaced revision:3 (Dated 2/26/2021)

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

2-METHOXY-1-METHYLETHYL ACETATE LC50 fish, Method: OECD Test Guideline 203 EC50 algae, Method: OECD Test Guideline 201

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish 134 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea 408 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Pseudokirchneriella subcapitata

PROPAN-2-OL

LC50 - for Fish 9640 mg/l/96h Pimephales promelas

EC50 - for Crustacea 13299 mg/l/48h Dapnia magna

METHYLETHYLKETONE

LC50 - for Fish 2993 mg/l/96h Pimephales Promelas

EC50 - for Crustacea 308 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 2029 mg/l/96h Pseudokirchneriella subcapitata

ETHYL ACETATE

LC50 - for Fish 230 mg/l/96h pimephales promelas

EC50 - for Crustacea 165 mg/l/48h daphnia

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, <2% aromatics

LC50 - for Fish > 1000 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

HYDROCARBONS, C9-C11, N-ALKANS, ISOALKANS, CYCLICS, <2% AROMATICS

Water, rapidly biodegradable DURATION 28 days - Test results: Base: percentage of degradation 89

2-METHOXY-1-METHYLETHYL ACETATE

Result: Readily biodegradable.
Method: OECD Test Guideline 301F

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

EPY 11.5.1 - SDS 1004.14

Tenax

TENAX SPA STAIN RESCUE REMOVER

Revision nr.4 Dated 5/29/2023

Printed on 9/20/2023 Page n. 12 / 17 Replaced revision:3 (Dated 2/26/2021)

ΕN

12. Ecological information .../>>

ETHANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

PROPAN-2-OL Rapidly degradable

METHYLETHYLKETONE

Solubility in water

Rapidly degradable

> 10000 mg/l

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, <2% aromatics

Rapidly degradable

12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1.2

TOLUENE

Partition coefficient: n-octanol/water 2.73

BCF 90

ETHANOL

Partition coefficient: n-octanol/water -0.35

PROPAN-2-OL

Partition coefficient: n-octanol/water 0.05

METHYLETHYLKETONE

Partition coefficient: n-octanol/water 0.3

ETHYL ACETATE

Partition coefficient: n-octanol/water 0.68

BCF 30

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Other adverse effects

Information not available



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 13 / 17

Page n. 13 / 17 Replaced revision:3 (Dated 2/26/2021) ΕN

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1993

14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL; ETHYL ACETATE)
IMDG: FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL; ETHYL ACETATE)
IATA: FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL; ETHYL ACETATE)

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L Tunnel restriction code: (D/E)

Special provision: 274, 601, 640D

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 364
Passengers: Maximum quantity: 5 L Packaging instructions: 353

Special provision: A3

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

15. Regulatory information

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

U.S. Federal Regulations

TSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification

©EPY 11.5.1 - SDS 1004.14



TENAX SPA STAIN RESCUE REMOVER

Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 14 / 17 Replaced revision:3 (Dated 2/26/2021)

15. Regulatory information .../>>

requirements.

Clean Air Act Section 112(b):

108-88-3 TOLUÉNE

78-93-3 METHYLETHYLKETONE

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:

108-88-3

TOLUENE

Clean Water Act – Toxic Pollutants:

108-88-3

TOLUENE

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

108-88-3 TOLUENE

78-93-3 METHYLETHYLKETONE

EPA List of Lists:

313 Category Code:

108-88-3 TOLUENE 67-63-0 PROPAN-2-OL

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

108-88-3 TOLUENE

78-93-3 METHYLETHYLKETONE

141-78-6 ETHYL ACETATE

EPCRA 313 TRI:

108-88-3 TOLUENE 67-63-0 PROPAN-2-OL

RCRA Code:

108-88-3 TOLUENE

78-93-3 METHYLETHYLKETONE

141-78-6 ETHYL ACETATE

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachussetts:

34590-94-8 DIPROPYLENE GLYCOL MONOMETHYL ETHER

108-88-3 TOLUENE 64-17-5 ETHANOL 67-63-0 PROPAN-2-OL

78-93-3 METHYLETHYLKETONE

141-78-6 ETHYL ACETATE

Minnesota:

34590-94-8 DIPROPYLENE GLYCOL MONOMETHYL ETHER

108-88-3 TOLUENE 64-17-5 ETHANOL 67-63-0 PROPAN-2-OL

78-93-3 METHYLETHYLKETONE



TENAX SPA STAIN RESCUE REMOVER

Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 15 / 17 Replaced revision:3 (Dated 2/26/2021)

15. Regulatory information .../>>

141-78-6 ETHYL ACETATE

New Jersey:

34590-94-8 DIPROPYLENE GLYCOL MONOMETHYL ETHER

108-88-3 TOLUENE 64-17-5 ETHANOL 67-63-0 PROPAN-2-OL

78-93-3 METHYLETHYLKETONE 141-78-6 ETHYL ACETATE

New York:

108-88-3 TOLUENE

78-93-3 METHYLETHYLKETONE 141-78-6 ETHYL ACETATE

Pennsylvania:

34590-94-8 DIPROPYLENE GLYCOL MONOMETHYL ETHER

108-88-3 TOLUENE 64-17-5 ETHANOL 67-63-0 PROPAN-2-OL

78-93-3 METHYLETHYLKETONE 141-78-6 ETHYL ACETATE

California:

34590-94-8 DIPROPYLENE GLYCOL MONOMETHYL ETHER

108-88-3 TOLUENE 64-17-5 ETHANOL 67-63-0 PROPAN-2-OL

78-93-3 METHYLETHYLKETONE 141-78-6 ETHYL ACETATE

Proposition 65:

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

108-88-3 TOLUENE

NSRL / MADL (µg/day)

Hazard type Oral Dermal Inhalation Intravenous Note Development toxicity 7000 -

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.
H304 May be fatal if swallowed and enters airways.

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

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)



Revision nr.4 Dated 5/29/2023 Printed on 9/20/2023 Page n. 16 / 17 Replaced revision:3 (Dated 2/26/2021)

16. Other information .../>>

- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



Revision nr.4 Dated 5/29/2023 Printed on 9/20/20202 Page n. 17 / 17 Replaced revision:3 (Dated 2/26/2021)

16. Other information .../>>

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 05 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16. ΕN