

Revision nr.2 Dated 7/31/2023 Printed on 9/20/2023 Page n. 1 / 15 Replaced revision:1 (Dated 10/10/2017)

# Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification					
1.1. Product identifier					
Code: Product name	SEMISOLIDO SEMISOLIDO	WET WET COLOR	ΑΤΟ		
1.2. Relevant identified uses of the substance or m	ixture and use	s advised aga	inst		
Intended use	FILLED POLYESTER PUTTY				
Identified Uses	Industrial		Professional	Consumer	
ADHESIVE SYSTEM/TREATMENT FOR STONE					
SECTOR	$\checkmark$		$\checkmark$	-	
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		(VR)	
	Tel. Fax	+39 045 6887 +39 045 6862			
e-mail address of the competent person					
responsible for the Safety Data Sheet	msds@tenax	.it			
Supplier:	Tenax Usa				
				), 28273 Charlotte NC, US	
	Tel. 001 7045 info@tenaxu		001 7045833166		
1.4. Emergency telephone number					
For urgent inquiries refer to	Infotrac				
	US and Cana	da: 1-800-535	-5053		
	Int'l: 1-352-32	23-3500			
	info@infotra	c.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 3 Flammable liquid and vapour. Carcinogenicity, category 2 Suspected of causing cancer. Reproductive toxicity, category 2 Suspected of damaging fertility or the unborn child. Specific target organ toxicity - repeated exposure, Causes damage to organs through prolonged or repeated exposure. category 1 Eye irritation, category 2 Causes serious eye irritation. Skin irritation, category 2 Causes skin irritation. Specific target organ toxicity - single exposure, May cause respiratory irritation. category 3 Respiratory sensitization, category 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization, category 1A May cause an allergic skin reaction.

@EPY 11.5.1 - SDS 1004.14



2. Hazards identification ... / >>

Hazard pictograms:



Signal	l word	S:

Hazard statements:	
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

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.
P270	Do not eat, drink or smoke when using this product.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P284	[In case of inadequate ventilation] wear respiratory protection.
Response:	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	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.
P312	Call a POISON CENTER / doctor / / if you feel unwell.
P342+P311	If experiencing respiratory symptoms: call a POISON CENTER / doctor /
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: wash with plenty of water /
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: use CO2, sand, powder to extinguish.
P363	Wash contaminated clothing before reuse.
Storage:	5
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:	•
	Dispose of contents / container according to applicable law.

Information not available

# 3. Composition/information on ingredients

@EPY 11.5.1 - SDS 1004.14



Revision nr.2 Dated 7/31/2023 Printed on 9/20/2023 Page n. 3 / 15 Replaced revision:1 (Dated 10/10/2017)

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

### 3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification:
STYRENE INDEX	601-026-00-0	16≤x< 17	Flammable liquid, category 3 H226, Reproductive toxicity, category 2 H361, Acute toxicity, category 4 H332, Specific target organ toxicity - repeated exposure, category 1 H372, Aspiration hazard, category 1 H304, Eye irritation, category 2 H319, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
EC CAS REACH Reg. TRIETHANOLA			
		1.5 ≤ x < 2	Eye irritation, category 2 H319, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335
EC CAS REACH Reg. TITANIUM DIO	203-049-8 102-71-6 01-2119486482-31		
EC	236-675-5	$0.7 \le x < 1$	Carcinogenicity, category 2 H351
EC CAS REACH Reg. PHTHALIC AN	13463-67-7 01-2119489379-17		
INDEX	607-009-00-4	0.1 ≤ x < 0.4	Acute toxicity, category 4 H302, Serious eye damage, category 1 H318, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335, Respiratory sensitization, category 1 H334, Skin sensitization, category 1 H317
EC	201-607-5		
CAS REACH Reg.	85-44-9 01-2119457017-41		
MALEIC ANHY		0.004.4	
INDEX	607-096-00-9	0.001 ≤ x < 0.05	Acute toxicity, category 4 H302, Specific target organ toxicity - repeated exposure, category 1 H372, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Respiratory sensitization, category 1 H334, Skin sensitization, category 1A H317
EC	203-571-6		
CAS REACH Reg.	108-31-6 01-2119472428-31		

\* There is a batch to batch variation.

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 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

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 Calcium and COx fumes.

### 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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.

ΕN

7. Handling and storage ... / >>

# 7.3. Specific end use(s)

Information not available

# 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory R	eferences:
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USA USA USA	NIOSH-REL OSHA-PEL CAL/OSHA-PEL	NIOSH publication No. 2005-149, 3th printing, 2007. Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000. 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 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	imin	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	2				RESP	
OSHA	USA		20				
OSHA	USA	30				INHAL	
OSHA	USA	10				RESP	
CAL/OSHA	USA	2				RESP	
NIOSH	USA	2				RESP	

TAI C

				TRIETH	ANOLAMINE		
<b>Threshold Limit</b>	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	5					

Thus also believe to Mark

# DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	imin	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	

				TITANIL		
Threshold Limit	Value					
Туре	Country	TWA/8h	STEL/15min		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	2.5				RESP
OSHA	USA	15				INHAL
CAL/OSHA	USA	10				INHAL
CAL/OSHA	USA	5				RESP



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

STYRENE									
Threshold Limit	Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH	-	10		20					
OSHA	USA		100		200				
CAL/OSHA	USA	215	50	425	100	SKIN			
NIOSH	USA	215	50	425	100				

HYDROQUINONE							
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	1					
OSHA	USA	2					
CAL/OSHA	USA	2					
NIOSH	USA			2 (C)			

				MALEIC	ANHYDRID	DE
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	0.01	0.0025			INHAL
OSHA	USA	1	0.25			
CAL/OSHA	USA	0.4	0.1			
NIOSH	USA	1	0.25			

Yellow iron oxide						
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	5				

				PHTHALIC	C ANHYDRIE	DE	
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
OSHA	USA	12	2				
CAL/OSHA	USA	6	1				
NIOSH	USA	6	1				

#### Legend:

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

STYRENE

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/004-styrene\_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 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes,



Revision nr.2 Dated 7/31/2023 Printed on 9/20/2023 Page n. 7 / 15 Replaced revision:1 (Dated 10/10/2017)

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

#### 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 Appearance Colour	Value paste various		Information
Odour	typical		
Odour threshold	not available not available		Deserve for missing detains that are for internet
pH	not available		Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Melting point / freezing point	not available		,
Initial boiling point	not available		
Boiling range	not available		
Flash point	31 °C	(87,8 °F)	Substance:STYRENE
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	1.58 g/cm3		
Solubility	insoluble in water		
Partition coefficient: n-octanol/water	not available		
Auto-ignition temperature	not available		
Decomposition temperature	not available		
Viscosity	>20,5 mm2/sec (40°C)		
Explosive properties	not available		
Oxidising properties	not available		
9.2. Other information			
VOC :	16,71 % - 264,05	g/litre	

# 10. Stability and reactivity

# 10.1. Reactivity

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

### TRIETHANOLAMINE

Possibility of reaction with acids. Possibility of reaction with oxidizing substances.

#### STYRENE

Polymerises at temperatures above 65°C/149°F.Fire hazard.Possibility of explosion.



#### 10. Stability and reactivity ... / >>

Added with an inhibitor that requires a small amount of dissolved oxygen at temperatures < 25°C/77°F.

#### 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.

#### STYRENE

May react dangerously with: peroxides, strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, diterbutyl peroxide, oxidising substances, oxygen.

#### 10.4. Conditions to avoid

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

#### STYRENE

Avoid contact with: oxidising substances,copper,strong acids.

# 10.5. Incompatible materials

#### TRIETHANOLAMINE

Oxidizing agents. Keep away from halogenated hydrocarbon acids.

STYRENE

Incompatible materials: plastic materials.

# 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

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

# STYRENE

WORKERS: inhalation; contact with the skin.

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

#### STYRENE

The acute toxicity by inhalation at 1000 ppm affects the central nervous system with headache and dizziness, lack of coordination; irritation of the eye and respiratory tract mucous membranes occurs at 500 ppm. Chronic exposure causes depression of the central and peripheral nervous system with loss of memory, headache and drowsiness starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes to hearing and may cause changes in colour vision. No certain data is available on the reversibility of the visual impairment. Repeated skin exposure causes irritation. The substance degreases the skin, which can cause dryness and cracking.

### Interactive effects

#### STYRENE

The metabolism of the substance is inhibited by ethanol. When styrene is photo-oxidised with ozone and nitrogen dioxide, as in the formation of smog, products highly irritating for the human eye may ensue.

### ACUTE TOXICITY

TRIETHANOLAMINE
LD50 (Oral):
LD50 (Dermal):

4190 mg/kg Rat > 2000 mg/kg Rabbit



11. Toxicological information ... / >>

TITANIUM DIOXIDE LD50 (Oral): LD50 (Dermal): LC50 (Inhalation mists/powders):

STYRENE LD50 (Oral): LC50 (Inhalation vapours):

MALEIC ANHYDRIDE LD50 (Oral): LD50 (Dermal):

PHTHALIC ANHYDRIDE LD50 (Oral): LC50 (Inhalation vapours): > 5000 mg/kg Ratto
> 10000 mg/kg Coniglio
> 6.82 mg/l/4h Ratto

5000 mg/kg Rat 11.8 mg/l/4h Rat

1090 mg/kg Rat 610 mg/kg Rat

1530 mg/kg Ratto > 2.14 mg/l/4h Ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin Sensitising for the respiratory system

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer Carcinogenicity Assessment: 100-42-5 STYRENE ACGIH:: A4 IARC:2B NTP: Reasonably Anticipated TRIETHANOLAMINE 102-71-6 IARC:3 TITANIUM DIOXIDE 13463-67-7 ACGIH:: A4 IARC:2B 108-31-6 MALEIC ANHYDRIDE ACGIH. A4

STYRENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2002). Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Causes damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm2/sec (40°C)

Revision nr.2 Dated 7/31/2023 Printed on 9/20/2023

Page n. 9 / 15 Replaced revision:1 (Dated 10/10/2017)



Revision nr.2 Dated 7/31/2023 Printed on 9/20/2023 Page n. 10 / 15 Replaced revision:1 (Dated 10/10/2017)

# 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

TRIETHANOLAMINE	
LC50 - for Fish	11800 mg/l/96h Pimephales promelas
EC50 - for Crustacea	609.88 mg/l/48h Ceriodaphnia dubia
EC50 - for Algae / Aquatic Plants	512 mg/l/72h Scenedesmus subspicatus
TITANIUM DIOXIDE	
LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	> 61 mg/l/72h Pseudokirchneriella subcapitata
PHTHALIC ANHYDRIDE	
LC50 - for Fish	560 mg/l/96h
EC50 - for Crustacea	> 640 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Fish	10 mg/l
12.2. Persistence and degradability	
TRIETHANOLAMINE	
Solubility in water	> 1000000 mg/l
Rapidly degradable	с С
TITANIUM DIOXIDE	
Solubility in water Degradability: information not available	< 0.001 mg/l
STYRENE	
Solubility in water	320 mg/l
Rapidly degradable	
MALEIC ANHYDRIDE	
Solubility in water Entirely degradable	> 10000 mg/l
12.3. Bioaccumulative potential	
TRIETHANOLAMINE	
Partition coefficient: n-octanol/water	-1.75
BCF	< 3.9



# 12. Ecological information ... / >>

	STYRENE	
	Partition coefficient: n-octanol/water	2.96
	BCF	74
	MALEIC ANHYDRIDE	
	Partition coefficient: n-octanol/water	-2.78
12	2.4. Mobility in soil	
	TRIETHANOLAMINE	
	Partition coefficient: soil/water	1
	STYRENE	
	Partition coefficient: soil/water	2.55

# 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  $\geq$  than 0,1%.

### 12.6. Other adverse effects

Information not available

### 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: 1866

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

The product, if packaged in packages of less than 450 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

#### 14.2. UN proper shipping name

ADR / RID:	RESIN SOLUTION
IMDG:	RESIN SOLUTION
IATA:	RESIN SOLUTION

# Tenax

# TENAX SPA SEMISOLIDO WET COLORATO

# 14. Transport information ... / >>

# 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: III

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

### 14.6. Special precautions for user

ADR / RID:

imdg: Iata: HIN - Kemler: 30 Special provision: -EMS: F-E, <u>S-E</u> Cargo: Passengers: Special provision: Limited Quantities: 5 L

Limited Quantities: 5 L Maximum quantity: 220 L Maximum quantity: 60 L A3 Tunnel restriction code: (D/E)

Packaging instructions: 366 Packaging instructions: 355

# 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 requirements.

 Clean Air Act Section 112(b):

 100-42-5
 STYRENE

 85-44-9
 PHTHALIC ANHYDRIDE

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: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.



Revision nr.2 Dated 7/31/2023 Printed on 9/20/2023 Page n. 13 / 15 Replaced revision:1 (Dated 10/10/2017)

# **15. Regulatory information** ... / >>

o. Rogalatory line				
DEA List II Chemicals (Essential Chemicals): No component(s) listed.				
EPA List of Lists: 313 Category Code 100-42-5 85-44-9	e: STYRENE PHTHALIC ANHYDRIDE			
EPCRA 302 EHS T No component(s) li				
EPCRA 304 EHS F No component(s) li				
CERCLA RQ: 100-42-5 85-44-9	STYRENE PHTHALIC ANHYDRIDE			
EPCRA 313 TRI: 100-42-5 85-44-9	STYRENE PHTHALIC ANHYDRIDE			
RCRA Code: 85-44-9	PHTHALIC ANHYDRIDE			
CAA 112 (r) RMP T No component(s) li				
State Regulations	-			
Massachussetts: 14807-96-6 102-71-6 13463-67-7 100-42-5 85-44-9	TALC TRIETHANOLAMINE TITANIUM DIOXIDE STYRENE PHTHALIC ANHYDRIDE			
Minnesota: 14807-96-6 102-71-6 13463-67-7 100-42-5 85-44-9	TALC TRIETHANOLAMINE TITANIUM DIOXIDE STYRENE PHTHALIC ANHYDRIDE			
New Jersey: 14807-96-6 102-71-6 13463-67-7 100-42-5 85-44-9	TALC TRIETHANOLAMINE TITANIUM DIOXIDE STYRENE PHTHALIC ANHYDRIDE			
New York: 100-42-5 85-44-9	STYRENE PHTHALIC ANHYDRIDE			
Pennsylvania: 102-71-6 13463-67-7 100-42-5 85-44-9	TRIETHANOLAMINE TITANIUM DIOXIDE STYRENE PHTHALIC ANHYDRIDE			
California: 14807-96-6 100-42-5 85-44-9	TALC STYRENE PHTHALIC ANHYDRIDE			
Droposition GE				

Proposition 65:

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

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# 15. Regulatory information ... / >>

. Regulatory informati	on/>>						
13463-67-7 TITANIUM	DIOXIDE						
Hazard type		NSRL / MADL	(µg/day) Oral	Dermal	Inhalation	Intravenous	Note
28553-12-0 DIISONON	IYL PHTHALA	TE					
Hazard type		NSRL / MADL	(µg/day) Oral	Dermal	Inhalation	Intravenous	Note
Carcinogenicity		146	Orai	Dermai	Innalation	mavenous	-
100-42-5 STYRENE							
Hazard type		NSRL / MADL	(µg/day) Oral	Dermal	Inhalation	Intravenous	Note
Carcinogenicity		27	0.01	2011101			-
nternational Regulations Substances subject to exp None	portation report	ing pursuant to R	egulation (El	J) 649/2012:			
Substances subject to the	Rotterdam Co	nvention:					
None							
Substances subject to the	Stockholm Co	onvention:					
None . <b>Other informatio</b>	n						
ext of hazard (H) indication	ons mentioned	in section 2-3 of	the sheet:				
H226		ble liquid and vap					
H351 H361	•	ed of causing car ed of damaging fo		uphorp shild			
H302	•	if swallowed.	enancy or the t	unborn child.			
H332		if inhaled.					
H372	Causes	damage to organ			ed exposure.		
H304		fatal if swallowed					
H314		severe skin burns		mage.			
H318		serious eye dama	•				
H319		serious eye irritat	ion.				
H315 H335		skin irritation.	tation				
H334		ise respiratory irri ise allergy or asth		ns or breathing dit	fficulties if inhaled	4	
H317		ise an allergic ski		is of breathing di			
H412		to aquatic life wit		effects.			
EGEND: 313 CATEGORY CODE: ADR: European Agreeme ATE: Acute Toxicity Estin CAA 112 ® RMP TQ: Ris	ent concerning nate	the carriage of D	angerous goo	ods by Road		Code	
CAS: Chemical Abstract      CE50: Effective concentral			effect)				
CERCLA RQ: Reportable CLP: Regulation (EC) 12	e Quantity (Coi 72/2008	mprehensive Envi		ponse, Compens	ation, and Liabilit	y Act)	
DEA: Drug Enforcement							
EmS: Emergency Schedu EPA: US Environmental I		ncy					
EPCRA: Emergency Plar	nning and Corr	munity Right-to K					
EPCRA 302 EHS TPQ: E EPCRA 304 EHS RQ: Ex EPCRA 313 TRI: Toxics	tremely Hazar	dous Substance I	Reportable Q	uantity (Section 3			
GHS: Globally Harmonize	ed System of c	lassification and l	abeling of ch	emicals			
IATA DGR: International	•	-	erous Goods	Regulation			
IMDG: International Marit							
IMO: International Maritin		• •					
LC50: Lethal Concentrati	-						
LD50: Lethal dose 50%							
OEL: Occupational Expos							
• PEL: Predicted exposure		nd Decause A d	Cada				
RCRA Code: Resource C	Joinservation a	nu Recovery Act	Jude				



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# 16. Other information ... / >>

- 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

Note for users:

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.

Changes to previous review:

The following sections were modified: 01 / 02 / 03 / 04 / 05 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.