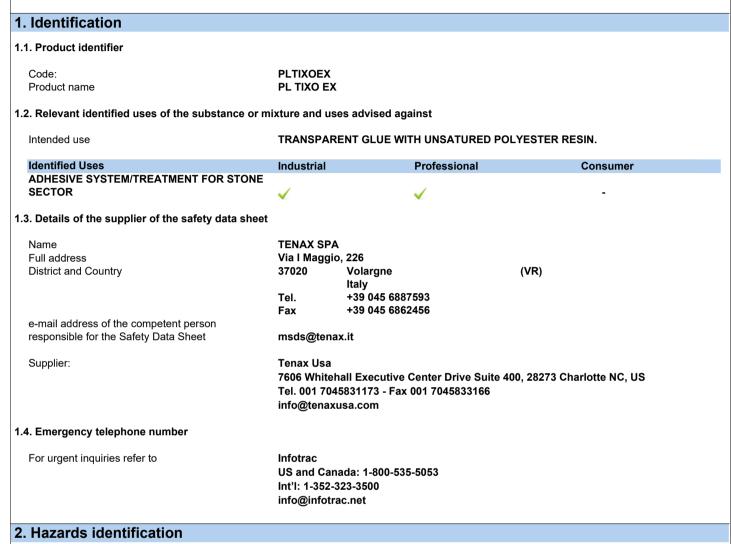


ΕN

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012



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 Reproductive toxicity, category 2 Specific target organ toxicity - repeated exposure, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Respiratory sensitization, category 1

Skin sensitization, category 1A Hazard pictograms:



Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.



2. Hazards identification ... / >>

Signal words:	Danger						
Hazard statements:							
H226	Flammable liquid and vapour.						
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 to						
1 303 11 351 11 350	do. Continue rinsing.						
D202+D264+D252							
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:	с. С						
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:	Store locked up.						
P501	Dispose of contents / container according to applicable law.						
F301	Dispose of contents / container according to applicable law.						
2.2. Other hazards							
Environmental classificatior	n as for Reg. (EC) 1272/2008 (CLP):						
The product is classified as	hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).						
Classification and Hazard S	Statement c environment, chronic toxicity, category 3 Harmful to aquatic life with long lasting effects.						
	Centrionnent, chronic toxicity, category 5 Hannitul to aquatic life with long lasting effects.						
Hazard statements:							
H412	Harmful to aquatic life with long lasting effects.						
H412	riamiti to aquate me with long lasting enects.						
Precautionary statements:							
Prevention:							
P273	Avoid release to the environment.						
Response:							
	-						
Storage:							
Disposal:							
1							



Revision nr.4 Dated 5/30/2023 Printed on 9/20/2023 Page n. 3 / 14 Replaced revision:3 (Dated 10/25/2021) ΕN

2. Hazards identification ... / >>

P501

Dispose of contents / container according to applicable law.

Composi	tion/informatio	n on ingredier	its
. Mixtures			
Contains:			
Identification		x = Conc. %	Classification:
STYRENE			
INDEX	601-026-00-0	34 ≤ x < 36	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 aquati- environment, chronic toxicity, category 3 H412
EC	202-851-5		
CAS	100-42-5		
REACH Reg.	01-2119457861-32		
PHTHALIC A	NHYDRIDE		
INDEX	607-009-00-4	0.4 ≤ x < 0.7	Acute toxicity, category 4 H302, Serious eye damage, category 1 H318, Ski 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	85-44-9		
REACH Reg.	01-2119457017-41		
DIISOPROPA	NOL-PARA-TOLUID		
		0.4 ≤ x < 0.7	Acute toxicity, category 2 H300, Eye irritation, category 2 H319, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
EC	254-075-1		
CAS	38668-48-3		
REACH Reg.	01-2119980937-17		
MALEIC ANH		0.05 ≤ x < 0.1	Acute toxicity, category 4 H302, Specific target organ toxicity - repeated
INDEX	607-096-00-9		
INDEX EC	203-571-6		damage, category 1 H318, Respiratory sensitization, category 1 H334, Skir
INDEX EC CAS	203-571-6 108-31-6		damage, category 1 H318, Respiratory sensitization, category 1 H334, Skir
INDEX EC CAS REACH Reg.	203-571-6 108-31-6 01-2119472428-31		damage, category 1 H318, Respiratory sensitization, category 1 H334, Skir
INDEX EC CAS REACH Reg. HYDROQUIN	203-571-6 108-31-6 01-2119472428-31 ONE		damage, category 1 H318, Respiratory sensitization, category 1 H334, Skir sensitization, category 1A H317
INDEX EC CAS REACH Reg. HYDROQUIN	203-571-6 108-31-6 01-2119472428-31	0 ≤ x < 0.05	damage, category 1 H318, Respiratory sensitization, category 1 H334, Skin sensitization, category 1A H317 Carcinogenicity, category 2 H351, Germ cell mutagenicity, category 2 H34
MALEIC ANH INDEX EC CAS REACH Reg. HYDROQUIN INDEX EC	203-571-6 108-31-6 01-2119472428-31 ONE	0 ≤ x < 0.05	Carcinogenicity, category 2 H351, Germ cell mutagenicity, category 2 H34 Acute toxicity, category 4 H302, Serious eye damage, category 1 H318, Ski sensitization, category 1 H317, Hazardous to the aquatic environment,

* 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.



TENAX SPA

4. First-aid measures ... / >>

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 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. 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.

ΕN



7. Handling and storage ... / >>

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.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

USA USA	NIOSH-REL OSHA-PEL	NIOSH publication No. 2005-149, 3th printing, 2007. 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 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

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

			ST	YRENE	
/alue					
Country	TWA/8h		STEL/15	min	Remarks / Observations
	mg/m3	ppm	mg/m3	ppm	
-	10		20		
USA		100		200	
USA	215	50	425	100	SKIN
USA	215	50	425	100	
	- USA USA	Country TWA/8h mg/m3 - 10 USA USA 215	Country TWA/8h mg/m3 ppm - 10 USA 100 USA 215 50	Country TWA/8h STEL/15 mg/m3 ppm mg/m3 - 10 20 USA 100 USA USA 215 50 425	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm - 10 20 USA 100 200 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 ANHYDRIDE							
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				



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

PHTHALIC ANHYDRIDE Threshold Limit Value Remarks / Observations Туре Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm USA OSHA 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, 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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
Appearance	paste
Colour	yellow
Odour	typical
Odour threshold	not available
pH	not available
Melting point / freezing point	not available
Initial boiling point	not available
Boiling range	not available

Information

Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture) ΕN



ΕN

9. Physical and chemical properties ... / >>

Flash point	32 °C (89,6 °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	1.1 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 :	35,06 % - 385,65 g/litre

10. Stability and reactivity

10.1. Reactivity

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

STYRENE

Polymerises at temperatures above 65°C/149°F.Fire hazard.Possibility of explosion. 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, azobisisobutyronitrile, dibenzoyi peroxide, sodium. Risk of explosion on contact with: butyliltnium, chlorosulphunc acid, diter 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

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

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

Information not available



Revision nr.4 Dated 5/30/2023 Printed on 9/20/2023 Page n. 8 / 14 Replaced revision:3 (Dated 10/25/2021)

11. Toxicological information ... / >>

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.

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

302 mg/kg Rat

> 900 mg/kg Rat

1090 mg/kg Rat

610 mg/kg Rat

ACUTE TOXICITY

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

HYDROQUINONE LD50 (Oral): LD50 (Dermal):

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

DIISOPROPANOL-PARA-TOLUIDINE LD50 (Oral): LD50 (Dermal):

PHTHALIC ANHYDRIDE LD50 (Oral): LC50 (Inhalation vapours): > 25 mg/kg rat > 2000 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

Does not meet the classification criteria for this hazard class Carcinogenicity Assessment: 100-42-5





11. Toxicological information ... / >>

	STYRENE ACGIH:: A4 IARC:2B NTP: Reasonably Anticipated
7631-86-9	AMORPHOUS SILICATE HYDRATE
108-31-6	MALEIC ANHYDRIDE ACGIH:: A4
123-31-9	HYDROQUINONE ACGIH:: A3 IARC:3

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)

12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

HYDROQUINONE	
LC50 - for Fish	0.044 mg/l/96h Danio rerio
EC50 - for Crustacea	0.13 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	17 mg/l/72h Chlorococcales
DIISOPROPANOL-PARA-TOLUIDINE	
LC50 - for Fish	17 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	28.8 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	245 mg/I/72h Desmodesmus subspicatus
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	

Tenax

TENAX SPA PL TIXO EX

Revision nr.4 Dated 5/30/2023 Printed on 9/20/2023 Page n. 10 / 14 Replaced revision:3 (Dated 10/25/2021)

12. Ecological information ... / >>

STYRENE	
Solubility in water Rapidly degradable	320 mg/l
HYDROQUINONE	
Solubility in water Rapidly degradable	> 10000 mg/l
MALEIC ANHYDRIDE	
Solubility in water Entirely degradable	> 10000 mg/l
DIISOPROPANOL-PARA-TOLUIDINE	
Solubility in water NOT rapidly degradable	7000 mg/l
12.3. Bioaccumulative potential	
STYRENE	
Partition coefficient: n-octanol/water	2.96
BCF	74
HYDROQUINONE	
Partition coefficient: n-octanol/water	0.59
BCF	3.162
MALEIC ANHYDRIDE	
Partition coefficient: n-octanol/water	-2.78
DIISOPROPANOL-PARA-TOLUIDINE	
Partition coefficient: n-octanol/water	2.1
12.4. Mobility in soil	
STYRENE	
Partition coefficient: soil/water	2.55
HYDROQUINONE	
Partition coefficient: soil/water	1.585
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



Revision nr.4 Dated 5/30/2023 Printed on 9/20/2023 Page n. 11 / 14 Replaced revision:3 (Dated 10/25/2021)

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3	*
IMDG:	Class: 3	Label: 3	***
IATA:	Class: 3	Label: 3	(B)



14.4. Packing group

ADR / RID, IMDG, IATA: 111

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:



Revision nr.4 Dated 5/30/2023 Printed on 9/20/2023 Page n. 12 / 14 Replaced revision:3 (Dated 10/25/2021)

15. Regulatory information ... / >>

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.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: 100-42-5 STYRENE 85-44-9 PHTHALIC ANHYDRIDE

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ:

100-42-5 STYRENE PHTHALIC ANHYDRIDE 85-44-9

EPCRA 313 TRI:	
100-42-5	STYRENE
85-44-9	PHTHALIC ANHYDRIDE

RCRA Code:

85-44-9 PHTHALIC ANHYDRIDE

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts:

7631-86-9	AMORPHOUS SILICATE HYDRATE
100-42-5	STYRENE
85-44-9	PHTHALIC ANHYDRIDE

Minnesota: 7631-86-9 100-42-5

AMORPHOUS SILICATE HYDRATE STYRENE 85-44-9 PHTHALIC ANHYDRIDE

PHTHALIC ANHYDRIDE

STYRENE

New Jersey: 100-42-5 85-44-9

New York: 100-42-5 85-44-9

STYRENE PHTHALIC ANHYDRIDE

Pennsylvania: 7631-86-9 AMORPHOUS SILICATE HYDRATE 100-42-5 STYRENE 85-44-9 PHTHALIC ANHYDRIDE

California: 7631-86-9

AMORPHOUS SILICATE HYDRATE

ΕN





ΕN

15. Regulatory information ... / >>

100-42-5	STYRENE
85-44-9	PHTHALIC ANHYDRIDE

Proposition 65:

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

100-42-5 STYRENE						
	NSRL / M	ADL (µg/day)				
Hazard type		Oral	Dermal	Inhalation	Intravenous	Note
Carcinogenicity	27					-
International Regulations						
Substances subject to exportation	on reporting pursuant	to Regulation (El	J) 649/2012:			
None			-			
Substances subject to the Rotte	rdam Convention:					
N.I.						
None						

None

16. Other information

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

H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
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.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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)
- 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



ΕN

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.

Trovide appointed start with adequate training of now to use chemical pr

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 / 03 / 05 / 08 / 09 / 10 / 11 / 14.