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VERTIGO FLOWING VINYLESTER COLORLES

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification				
1.1. Product identifier				
Code: Product name	VERTIGO_FL VERTIGO FL	Lowing .owing vinyl	ESTER COLORLES	
1.2. Relevant identified uses of the substance or m	ixture and use	es advised aga	iinst	
Intended use	Vinylester m	astic		
Identified Uses	Industrial		Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	✓		✓	-
1.3. Details of the supplier of the safety data sheet				
Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet	TENAX SPA Via I Maggio, 37020 Tel. Fax msds@tenax	Volargne Italy +39 045 6887 +39 045 6862		(VR)
Supplier:	Tenax Usa 7606 Whitehall Executive Center Drive Suite 400, 28273 Charlotte NC, US Tel. 001 7045831173 - Fax 001 7045833166 info@tenaxusa.com			
1.4. Emergency telephone number				
For urgent inquiries refer to	Infotrac US and Cana Int'l: 1-352-32 info@infotrac		-5053	
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 Reproductive toxicity, category 2 Acute toxicity, category 4 Specific target organ toxicity - repeated exposure, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Skin sensitization, category 1 Hazard pictograms:



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

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

May cause an allergic skin reaction.



2. Hazards identification ... / >>

Classification and Hazard Hazardous to the aqua Hazard statements: H412 Precautionary statements Prevention: P273 Response:	Harmful to aquatic life with long lasting effects.
Hazardous to the aqua Hazard statements: H412	Harmful to aquatic life with long lasting effects.
Hazardous to the aqua	atic environment, chronic toxicity, category 3 Harmful to aquatic life with long lasting effects.
1	
The product is classified a	as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).
Environmental classificati	tion as for Reg. (EC) 1272/2008 (CLP):
2.2. Other hazards	
P501	Dispose of contents / container according to applicable law.
P405 Disposal:	Store locked up.
P403+P235 P403+P233	Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep container tightly closed.
Storage: P403+P235	Store in a well-ventilated place. Keep cool.
P363	Wash contaminated clothing before reuse.
P362+P364 P370+P378	Take off contaminated clothing and wash it before reuse. In case of fire: use CO2, sand, powder to extinguish.
P302+P352	IF ON SKIN: wash with plenty of water /
P304+P340 P330	IF INHALED: remove person to fresh air and keep comfortable for breathing. Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice / attention.
P312 P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P308+P313 P312	IF exposed or concerned: Get medical advice / attention. Call a POISON CENTER / doctor / / if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Response:	IF IN EVES. Pince cautioucly with water for several minutes. Remove contact lenses, if present and easy to
P272	Contaminated work clothing should not be allowed out of the workplace.
P243 P241	Take precautionary measures against static discharge. Use explosion-proof electrical / ventilating / lighting / / equipment.
P240 P243	Ground / bond container and receiving equipment.
P264	Wash the hands thoroughly after handling.
P270 P271	Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P201	Obtain special instructions before use.
P202 P242	Do not handle until all safety precautions have been read and understood. Use only non-sparking tools.
P260	Do not breathe dust / fume / gas / mist / vapours / spray.
Prevention: P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary statements	
H335 H317	May cause respiratory irritation. May cause an allergic skin reaction.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H302 H372	Harmful if swallowed. Causes damage to organs through prolonged or repeated exposure.
H361	Suspected of damaging fertility or the unborn child.
Hazard statements: H226	Flammable liquid and vapour.
Lineard statements.	-

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2. Hazards identification ... / >>

Additional hazards Information not available

3. Composition/information on ingredients

- 3.2. Mixtures
 - Contains:

Identification		x = Conc. %	Classification:
STYRENE INDEX	601-026-00-0	49≤x< 51	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. METHYL MET	202-851-5 100-42-5 01-2119457861-32 'HACRYLATE		
INDEX	607-035-00-6	2≤x< 2.5	Flammable liquid, category 2 H225, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335, Skin sensitization, category 1 H317
EC CAS REACH Reg. DIISOPROPA	201-297-1 80-62-6 01-2119452498-28 NOL-PARA-TOLUID		
		0.7 ≤ x < 1	Acute toxicity, category 2 H300, Eye irritation, category 2 H319, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
EC CAS REACH Reg. METHACRYL	254-075-1 38668-48-3 01-2119980937-17 IC ACID		
INDEX	607-088-00-5	0.7≤x< 1	Acute toxicity, category 3 H311, Acute toxicity, category 4 H302, Acute toxicity, category 4 H332, Skin corrosion, category 1A H314, Serious eye damage, category 1 H318, Specific target organ toxicity - single exposure, category 3 H335
EC CAS REACH Reg. OCTABENZO	201-204-4 79-41-4 01-2119463884-26 NE		
EC CAS REACH Reg.	217-421-2 1843-05-6 01-2119557833-30	0.1 ≤ x < 0.4	Skin sensitization, category 1 H317

* 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. First-aid measures ... / >>

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.

METHYL METHACRYLATE

Heat may cause the product to polymerise, which could lead to explosion.

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,



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7. Handling and storage ... / >>

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

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 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

METHACRYLIC ACID							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
CAL/OSHA	USA	70	20			SKIN	
NIOSH	USA	70	20			SKIN	

2,2',2"-NITRILOTRIETHANOL							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	5					
CAL/OSHA	USA	5					

METHYL METHACRYLATE							
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	205	50	410	100		
OEL	EU		50		100		
OSHA	USA	410	100				
CAL/OSHA	USA	205	50	410	100		
NIOSH	USA	410	100				

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	

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

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 limit of use will be defined by the manufacturer (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 Appearance Colour Odour Odour threshold pH		aroma not av	SPAREN [:] atic ailable ailable	T-BLUE		Information Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Melting point / freezing point Initial boiling point	>	not av 35	ailable °C	(95 °F)		
Boiling range	-		ailable	(95 F)		
Flash point		29.4			(84,92 °F)	
Evaporation rate			ailable		(04,02 1)	
Flammability			ailable			
Lower inflammability limit			ailable			
Upper inflammability limit		not av	ailable			
Lower explosive limit		not av	ailable			
Upper explosive limit		not av	ailable			
Vapour pressure		not av	ailable			
Vapour density		not av	ailable			
Relative density		1	g/cm3			
Solubility		insolu	ble in wate	er		
Partition coefficient: n-octanol/water		not av	ailable			
Auto-ignition temperature			ailable			
Decomposition temperature		not av	ailable			



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

Viscosity Explosive pr Oxidising pro 9.2. Other info	operties	>20,5 mm2/sec (not available not available	(40°C)	
VOC :		51,81 % - 51	8,05	g/litre

10. Stability and reactivity

10.1. Reactivity

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

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.

METHYL METHACRYLATE

May polymerise on contact with: ammonia, organic peroxides, persulphates. Risk of explosion on contact with: dibenzoyl

peroxide, diterbutyl peroxide, propional dehyde. May react dangerously with: strong oxidising agents. Forms explosive mixtures with: 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.

METHYL METHACRYLATE

Avoid exposure to: heat,UV rays.Avoid contact with: oxidising substances,reducing substances,acids,bases.

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.

METHYL METHACRYLATE

When heated to decomposition releases: harsh fumes, zinc alloys.

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

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

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11. Toxicological information ... / >>

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.

1350 mg/kg Ratto > 500 mg/kg Coniglio 7.1 mg/l/4h Ratto

> 5000 mg/kg 5000 mg/kg

29.8 mg/l/4h

5000 mg/kg Rat

11.8 mg/l/4h Rat

> 25 mg/kg rat

> 2000 mg/kg rat

ACUTE TOXICITY

METHACRYLIC ACID
LD50 (Oral):
LD50 (Dermal):
LC50 (Inhalation vapours)

METHYL METHACRYLATE LD50 (Oral): LD50 (Dermal): LC50 (Inhalation vapours):

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

DIISOPROPANOL-PARA-TOLUIDINE LD50 (Oral):

SKIN CORROSION / IRRITATION

LD50 (Dermal):

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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 STYRENE ACGIH:: A4 IARC:2B NTP: Reasonably Anticipated 80-62-6 METHYL METHACRYLATE ACGIH:: A4 IARC:3 102-71-6 2,2',2"-NITRILOTRIETHANOL 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).

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11. Toxicological information ... / >>

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

METHACRYLIC ACID	
LC50 - for Fish	85 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 130 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	20 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	10 mg/l Danio rerio
Chronic NOEC for Crustacea	53 mg/l Daphnia magna
METHYL METHACRYLATE	
LC50 - for Fish	130 mg/l/96h Pimephales promelas
EC50 - for Crustacea	69 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	110 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	9.4 mg/l Brachydanio rerio
Chronic NOEC for Crustacea	37 mg/l Daphnia magna
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/l/72h Desmodesmus subspicatus
12.2. Persistence and degradability	

METHACRYLIC ACID Rapidly degradable

METHYL METHACRYLATE

Solubility in water Rapidly degradable 15300 mg/l



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12. Ecological information .../>>

STYRENE	
Solubility in water Rapidly degradable	320 mg/l
DIISOPROPANOL-PARA-TOLUIDINE	
Solubility in water NOT rapidly degradable	7000 mg/l
12.3. Bioaccumulative potential	
METHACRYLIC ACID	
Partition coefficient: n-octanol/water	0.93
BCF	1
METHYL METHACRYLATE	
Partition coefficient: n-octanol/water	1.38
STYRENE	
Partition coefficient: n-octanol/water	2.96
BCF	74
DIISOPROPANOL-PARA-TOLUIDINE	
Partition coefficient: n-octanol/water	2.1
12.4. Mobility in soil	
METHYL METHACRYLATE	
Partition coefficient: soil/water	0.94
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 ≥ 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

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14. Transport information ... / >>

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



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:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: -		
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	Maximum quantity: 60 L	Packaging instructions: 355
	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 requirements.

Clean Air Act Section 112(b):80-62-6METHYL METHACRYLATE100-42-5STYRENE

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. ΕN



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15. Regulatory information ... / >>

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: 80-62-6 METHYL METHACRYLATE 100-42-5 STYRENE

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

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

CERCLA RQ:

80-62-6METHYL METHACRYLATE100-42-5STYRENE

EPCRA 313 TRI:

80-62-6METHYL METHACRYLATE100-42-5STYRENE

RCRA Code: 80-62-6

METHYL METHACRYLATE

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

State Regulations

Massachussetts:

Massachussetts:	
79-41-4	METHACRYLIC ACID
102-71-6	2,2',2"-NITRILOTRIETHANOL
80-62-6	METHYL METHACRYLATE
100-42-5	STYRENE
Minnesota:	
79-41-4	METHACRYLIC ACID
102-71-6	2,2',2"-NITRILOTRIETHANOL
80-62-6	METHYL METHACRYLATE
100-42-5	STYRENE
New Jersey:	
79-41-4	METHACRYLIC ACID
102-71-6	2,2',2"-NITRILOTRIETHANOL
80-62-6	METHYL METHACRYLATE
100-42-5	STYRENE

New York: 80-62-6

80-62-6METHYL METHACRYLATE100-42-5STYRENE

Pennsylvania:

79-41-4	METHACRYLIC ACID
102-71-6	2,2',2"-NITRILOTRIETHANOL
80-62-6	METHYL METHACRYLATE
100-42-5	STYRENE

California:

79-41-4	METHACRYLIC ACID
80-62-6	METHYL METHACRYLATE
100-42-5	STYRENE



15. Regulatory information ... / >>

Proposition 65:

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

Text of hazard (H) indications mentioned in section 2-3 of the sheet:H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H361Suspected of damaging fertility or the unborn child.H300Fatal if swallowed.H311Toxic in contact with skin.H302Harmful if swallowed.H332Harmful if inhaled.H372Causes damage to organs through prolonged or repeated exposure.H304May be fatal if swallowed and enters airways.H314Causes severe skin burns and eye damage.H315Causes skin irritation.H335May cause an allergic skin reaction.H412Harmful to aquatic life with long lasting effects.			NSRL / MAI	DL (µg/day)				
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 Convent the Stockholm Co	3 1			Oral	Dermal	Inhalation	Intravenous	Note
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- 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
- 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



VERTIGO FLOWING VINYLESTER COLORLES

16. Other information ... / >>

- 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: 02 / 03 / 05 / 08 / 09 / 10 / 11 / 14.