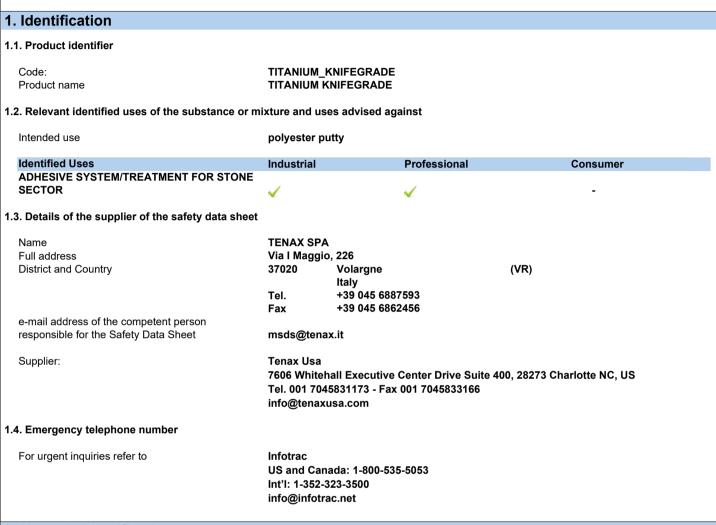


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Safety Data Sheet

According to U.S.A. Federal Hazcom 2012



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 Carcinogenicity, category 2 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 causing cancer. 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.

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2. Hazards identification ... / >>

Signal words:	Danger									
	·									
Hazard statements:										
H226	Flammable liquid and vapour.									
H351	Suspected of causing cancer.									
H361	Suspected of damaging fertility or the unborn child.									
H302	Harmful if swallowed.									
H372	Causes damage to organs through prolonged or repeated exposure.									
H319 H315	Causes serious eye irritation. Causes skin irritation.									
H335	May cause respiratory irritation.									
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 P271	Do not eat, drink or smoke when using this product. 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.									
Response:										
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to									
	do. Continue rinsing.									
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.									
P308+P313	IF exposed or concerned: Get medical advice / attention.									
P312 P333+P313	Call a POISON CENTER / doctor / / if you feel unwell. 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.									
P330	Rinse mouth.									
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:										
P403+P235 P403+P233	Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep container tightly closed.									
P405	Store locked up.									
Disposal:										
P501	Dispose of contents / container according to applicable law.									
2.2. Other hazards										
Environmental classification a	as for Reg. (EC) 1272/2008 (CLP):									
The unequestion described as h	enandeus fer environment hauter unt te the menuicians act forth in EC Demulation (272/2000 (CLD)									
I ne product is classified as h	azardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).									
Classification and Hazard Sta	atement									
	environment, chronic toxicity, category 3 Harmful to aquatic life with long lasting effects.									
······································										
Hazard statements:										
H412	Harmful to aquatic life with long lasting effects.									
Precautionary statements:										
Prevention:	A second s									
P273	Avoid release to the environment.									
Response:										
Storage:										
Disposal:										
1										

ΕN



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2. Hazards identification ... / >>

P501

Dispose of contents / container according to applicable law.

Additional hazards		
Information not availab		4-
3. Composition/in	formation on ingredier	115
3.2. Mixtures		
Contains:		
Identification	x = Conc. %	Classification:
STYRENE INDEX 601-02	6-00-0 47 ≤ x < 49	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 202-85 CAS 100-42 REACH Reg. 01-211 DIISOPROPANOL-PA	-5 9457861-32	
	0.7 ≤ x < 1.255	Acute toxicity, category 2 H300, Eye irritation, category 2 H319, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
EC 254-07 CAS 38668- REACH Reg. 01-211 TITANIUM DIOXIDE	48-3	
EC 236-67 CAS 13463- REACH Reg. 01-211 METHYL METHACRY	67-7 9489379-17	Carcinogenicity, category 2 H351
INDEX 607-03		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 201-29 CAS 80-62- REACH Reg. 01-211 methacrylic acid		
INDEX 607-08	8-00-5 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 201-20 CAS 79-41 REACH Reg. 01-211 OCTABENZONE		
EC 217-42 CAS 1843-0 REACH Reg. 01-211	5-6 9557833-30	Skin sensitization, category 1 H317
* There is a batch to ba	icn 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.

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TENAX SPA TITANIUM KNIFEGRADE

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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.

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

6.4. Reference to other sections

13.

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



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7. Handling and storage ... / >>

accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

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 TLV-ACGIH	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. ACGIH 2022

				metha	crylic 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	

				TRIETH	ANOLAMINI	E	
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	5					
CAL/OSHA	USA	5					

TITANIUM DIOXIDE								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15	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		

				METHYL M	ETHACRY	LATE	
Threshold Limit V	/alue						
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				



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

				ST	YRENE			
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			

Siloxanes and Silicones, di-Me, reaction products with silica

Туре	Country	TWA/8h	FWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OSHA-PEL	USA	15				INHAL
OSHA-PEL	USA	5				RESP
TLV-ACGIH	-	10				INHAL
TLV-ACGIH	-	3				RESP

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

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



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prolonged contact> 1.50 mm

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value		Information
Appearance	paste		monnation
Colour	various		
Odour	characteristic		
Odour threshold	not available		
pH	not available		Reason for missing data:substance/mixture is
pri	not available		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)	
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	1.05 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 :	48,84 % - 512,82	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,propionaldehyde.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



TENAX SPA

ΕN

10. Stability and reactivity ... / >>

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

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

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

methacrylic acid LD50 (Oral): LD50 (Dermal): LC50 (Inhalation vapours):

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

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

STYRENE LD50 (Oral): LC50 (Inhalation vapours): 1350 mg/kg Ratto > 500 mg/kg Coniglio 7.1 mg/l/4h Ratto

> 5000 mg/kg Ratto
> 10000 mg/kg Coniglio
> 6.82 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



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11. Toxicological information ... / >>

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

> 25 mg/kg rat > 2000 mg/kg rat

SKIN CORROSION / IRRITATION

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

Suspected of causing cancer Carcinogenicity Assessment:							
100-42-5	STYRENE						
	ACGIH:: A4						
	IARC:2B						
	NTP: Reasonably Anticipated						
7631-86-9	AMORPHOUS SILICATE HYDRATE						
	IARC:3						
80-62-6	METHYL METHACRYLATE						
	ACGIH:: A4						
	IARC:3						
13463-67-7	TITANIUM DIOXIDE						
	ACGIH:: A4						
	IARC:2B						
102-71-6	TRIETHANOLAMINE						
	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

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12. Ecological information ... / >>

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
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
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	
TITANIUM DIOXIDE	
Solubility in water Degradability: information not available	< 0.001 mg/l
METHYL METHACRYLATE	
Solubility in water Rapidly degradable	15300 mg/l
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	

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12. Ecological information ... / >>

	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
1:	2.4. 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 \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

14.2. UN proper shipping name

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



ΕN

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):

 80-62-6
 METHYL METHACRYLATE

 100-42-5
 STYRENE

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.



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15. Regulatory information ... / >>

DEA List II Chemicals (Essential Chemicals): No component(s) listed.		
EPA List of Lists: 313 Category Code 80-62-6 100-42-5	9: METHYL METHACRYLATE STYRENE	
EPCRA 302 EHS T No component(s) li		
EPCRA 304 EHS F No component(s) li		
CERCLA RQ: 80-62-6 100-42-5	METHYL METHACRYLATE STYRENE	
EPCRA 313 TRI: 80-62-6 100-42-5	METHYL METHACRYLATE STYRENE	
RCRA Code: 80-62-6	METHYL METHACRYLATE	
CAA 112 (r) RMP T No component(s) li		
State Regulations	-	
Massachussetts: 79-41-4 102-71-6 7631-86-9 13463-67-7 80-62-6 100-42-5	methacrylic acid TRIETHANOLAMINE AMORPHOUS SILICATE HYDRATE TITANIUM DIOXIDE METHYL METHACRYLATE STYRENE	
Minnesota: 79-41-4 102-71-6 7631-86-9 13463-67-7 80-62-6 100-42-5	methacrylic acid TRIETHANOLAMINE AMORPHOUS SILICATE HYDRATE TITANIUM DIOXIDE METHYL METHACRYLATE STYRENE	
New Jersey: 79-41-4 102-71-6 13463-67-7 80-62-6 100-42-5	methacrylic acid TRIETHANOLAMINE TITANIUM DIOXIDE METHYL METHACRYLATE STYRENE	
New York: 80-62-6 100-42-5	METHYL METHACRYLATE STYRENE	
Pennsylvania: 79-41-4 102-71-6 7631-86-9 13463-67-7 80-62-6 100-42-5	methacrylic acid TRIETHANOLAMINE AMORPHOUS SILICATE HYDRATE TITANIUM DIOXIDE METHYL METHACRYLATE STYRENE	
California: 79-41-4 7631-86-9 80-62-6	methacrylic acid AMORPHOUS SILICATE HYDRATE METHYL METHACRYLATE	



15. Regulatory information ... / >>

100-42-5 STYRENE

Proposition 65:

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

13463-67-7 TITANIUM DIC						
	NSRL	/ MADL (µg/day)				N1 /
Hazard type		Oral	Dermal	Inhalation	Intravenous	Note
100-42-5 STYRENE						
	NSRL	/ MADL (µg/day)				
Hazard type		Oral	Dermal	Inhalation	Intravenous	Note
Carcinogenicity	27					-
International Regulations						
Substances subject to exporta	ition reporting pursu	ant to Regulation (E	J) 649/2012:	-		
None						
Substances subject to the Rot	terdam Convention					
None						
Substances subject to the Sto	ckholm Convention:					
None						
6. Other information						
To do the second (11) in the discussion		0.0.546.556				
Text of hazard (H) indications	mentioned in section	1 2-3 of the sheet:				
H225	Highly flammable	liquid and vapour.				
H225 H226	Flammable liquid					
H351	Suspected of cau					
H361		naging fertility or the	unborn child.			
H300	Fatal if swallowed					
H311	Toxic in contact w	/ith skin.				
H302	Harmful if swallov	ved.				
H332	Harmful if inhaled					
H372		o organs through pro		ted exposure.		
H304		allowed and enters a				
H314		in burns and eye da	mage.			
H319	Causes serious e					
H315	Causes skin irrita					
H335	May cause respire					
H317 H412		ergic skin reaction. c life with long lasting	offooto			
H412	rianniu to aquati	c life with long lasting	j ellects.			
LEGEND:						
- 313 CATEGORY CODE: Em	ergency Planning ar	nd Community Right-	to Know Act Sec	tion 313 Category	Code	
- ADR: European Agreement of						
- ATE: Acute Toxicity Estimate		0 0 0	,			
- CAA 112 ® RMP TQ: Risk M	anagement Plan Th	reshold Quantity (Cle	an Air Act Sectio	on 112®)		
- CAS: Chemical Abstract Service	vice Number	• •				
- CE50: Effective concentration	n (required to induce	e a 50% effect)				
- CERCLA RQ: Reportable Qu	antity (Comprehens	ive Environment Res	ponse, Compens	sation, and Liability	y Act)	
- CLP: Regulation (EC) 1272/2						
- DEA: Drug Enforcement Adn	ninistration					
- EmS: Emergency Schedule						
- EPA: US Environmental Protection Agency						
	0,	• • • • • • • • •				
- EPCRA: Emergency Plannin	g and Community R			(0time 000 0t.	0.1.)	
- EPCRA 302 EHS TPQ: Extre	g and Community R emely Hazardous Su	bstance Threshold P				
- EPCRA 302 EHS TPQ: Extre - EPCRA 304 EHS RQ: Extre	g and Community R emely Hazardous Su nely Hazardous Sub	bstance Threshold P stance Reportable Q	uantity (Section			
- EPCRA 302 EHS TPQ: Extre - EPCRA 304 EHS RQ: Extrer - EPCRA 313 TRI: Toxics Rele	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect	bstance Threshold P stance Reportable Q ion 313 Category Co	uantity (Section 3 de)			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extre EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S 	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect System of classificati	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extrer EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air 	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extre EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air IC50: Immobilization Concent 	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio tration 50%	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch n Dangerous Goods	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extre EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air IC50: Immobilization Concent IMDG: International Maritime 	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio tration 50% Code for dangerous	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch n Dangerous Goods	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extre EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air IC50: Immobilization Concent IMDG: International Maritime IMO: International Maritime 	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio tration 50% Code for dangerous Organization	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch n Dangerous Goods	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extre EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air IC50: Immobilization Concent IMDG: International Maritime IMO: International Maritime LC50: Lethal Concentration 5 	g and Community R emely Hazardous Su nely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio tration 50% Code for dangerous Organization	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch n Dangerous Goods	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extrer EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air IC50: Immobilization Concent IMDG: International Maritime IMO: International Maritime LC50: Lethal Concentration S LD50: Lethal dose 50% 	g and Community R emely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio tration 50% Code for dangerous Drganization 50%	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch n Dangerous Goods	uantity (Section : de) emicals			
 EPCRA 302 EHS TPQ: Extre EPCRA 304 EHS RQ: Extrer EPCRA 313 TRI: Toxics Rele GHS: Globally Harmonized S IATA DGR: International Air IC50: Immobilization Concent IMDG: International Maritime IMO: International Maritime LC50: Lethal Concentration 5 	g and Community R emely Hazardous Sub ease Inventory (Sect System of classificati Transport Associatio tration 50% Code for dangerous Organization 50%	bstance Threshold P stance Reportable Q ion 313 Category Co on and labeling of ch n Dangerous Goods	uantity (Section : de) emicals			



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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: 02 / 03 / 05 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.