

SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	MAJESTIC TOP PRO ULTIMATE UV Part A (Top Coat Polycarbamide)	
Other means of identificati	n LSECT-000-A	

Recommended use and restrictions on use Countertops

Initial supplier identifierLabSurface. 101-1079 des Forges, Terrebonne, J6Y 0J9, Qué (Canada) Tél. (450) 966-9000

Emergency telephone number/restriction on use Canada – CANUTEC Number 24 hours 613-996-6666

Section 2. Hazard Identification

Classification of hazardous product (name of the category or subcategory of the hazard class)

Skin sensitization (Category 1)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



Warning

H317 May cause an allergic skin reaction.

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

Response

IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal

P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other hazards	known None		
		on/Information on Ingredients	
Chemical name	e (common name/synonyms)	CAS number or other	Concentration (%)*
Diethtyl fumarate		623-91-6	< 30 %
	is safety data sheet provides concentration range(s)	instead of the actual concentration(s) consider	ed trade secret(s)
	Section 4.	First-Aid Measures	
Inhalation	IF INHALED: if overexposure remove person to attention.	o fresh air and keep comfortable for breathing.	If symptoms persist, get medical
Ingestion	IF SWALLOWED: Prevent aspiration of vomit. an unconscious person.	If symptoms persist, seek medical attention. I	Do not give anything by mouth to
Skin contact	IF ON SKIN: Take off contaminated clothing. We medical attention. Wash contaminated clothing be attended by the second se		inutes). If symptoms persist: Get
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritations persist: Get medical attention.		
Most importan	t symptoms and effects (acute or delayed)	May cause an allergic skin reaction.	
Indication of ir	nmediate medical attention/special treatment	In all cases, call a doctor. Do not forget this doe	cument.
	Section 5. F	ire-Fighting Measures	
	ls of the hazardous product (hazardous combust		
Carbon monoxi	de (CO), toxic fumes, ammoniagas, nitrogen oxide		
Suitable and u	nsuitable extinguishing media		
	Use carbon dioxide (CO2), dry chemical, alcohol res	sistant foam.	
	ive equipment and precautions for fire-fighters		
During a fire, ir	ritating/toxic fumes may be generated. Do not enter	fire area without proper protection. Firefighte	rs should wear proper protective
equipment as rea	quired.		
	Section 6. Acci	idental Release Measures	
Personal preca	utions, protective equipment and emergency pro	cedures	
Evacuate non-e	emergency personnel. Isolate the area and prevent	access. Control source of the leak. Ensure c	lean-up is conducted by trained
	All persons dealing with allow up should wear the		0) Durana 41

Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up



Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Dispose of in accordance with local, provincial and federal regulations. Section 7. Handling and Storage **Precautions for safe handling** Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear gloves/protective clothing/gloves/eye protection/face protection. Conditions for safe storage, including any incompatibilities Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C. **Section 8. Exposure Controls/Personal Protection** Control parameters (biological limit values or exposure limit values and source of those values) Exposure limits: ACGIH - TLV-TWA Not available. Appropriate engineering controls Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards. Individual protection measures/personal protective equipment Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions. Section 9. Physical and Chemical Properties Appearance, physical state/colour Liquid Vapour pressure Not available Odour Faint odor Vapour density Not available **Odour threshold** Not available Relative density Not available **pH** Not available Solubility Not soluble Partition coefficient - n-octanol/water Not available Melting/freezing point Not available **Initial boiling point/range** Not available Auto-ignition temperature Not available **Flash point** $> 90^{\circ}$ C **Decomposition temperature** Not available **Evaporation rate** Not available Viscosity Not available Flammability (solids and gases) Not available **VOC** Not available Upper and lower flammability/explosive limits Not available Other None known Section 10. Stability and Reactivity Reactivity Stable under normal conditions. Chemical stability Yes, Stable under the recommended storage and handling conditions prescribed. Possibility of hazardous reactions Non under normal conditions of storage and use. Conditions to avoid (static discharge, shock or vibration) Excess heat. **Incompatible materials** Organic acid, mineral acid, peroxide, oxidizing agents, nitrous acid, sodium hypochlorite. Hazardous decomposition products Nitrogen oxide, carbon mono and dioxide (CO) (CO2), nitrosamine, nitric acid, ammonia. Section 11. Toxicological Information Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact) May cause an allergic skin reaction. Symptoms related to the physical, chemical and toxicological characteristics No specific information available. Delayed and immediate effects (chronic effects from short-term and long-term exposure) Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity - No data available; Carcinogenicity - No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity -No data available; Specific Target Organ Toxicity — Single Exposure - No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.



	Acute toxicity oral LD50-rat: 1,367mg/kg; ATE not available in this document.
	Section 12. Ecological Information
Ecotoxicity (ag	uatic and terrestrial information)
	: CAS 623-91-6: - LC50: 66mg/l (Zebra fish (Brachydanio rerio) 96h);
	tatic Invertebrates: EC 50: 88.6 mg/l (Water flea (Daphnia magna) 48h);
	natic and Terrestrial Plants: EC 50: 3110 mg/l (Green algae (Scenedesmus subspicatus) 72h); 111 mg/l, 72h.
Persistence and	
Bioaccumulativ	
Mobility in soil	No data available
Other adverse	effects No data available
	Section 13. Disposal Considerations
Information on	safe handling for disposal/methods of disposal/contaminated packaging
Dispose of conte	ents/container into safe container in accordance with local, regional or national regulations.
	Section 14. Transport Information
UN number; Pr	roper shipping name; Class(es); Packing group (PG) of the TDG Regulations
Not regulated	
UN number; Pi	roper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)
Not regulated	
Ų	roper shipping name; Class(es); Packing group (PG) of the IATA (air)
Not regulated	
ů.	tions (transport/conveyance) None
	hazards (IMDG or other) None
	(usually more than 450 L in capacity) None
	Section 15. Regulatory Information
Safety/health C	Canadian regulations specifics This product has been classified in accordance with the hazard criteria of the Hazardous Products
	Regulations (HPR).
Environmental	Canadian regulations specifics Refer to Section 3 for ingredient(s) of the DSL
	nvironmental outside regulations specifics
	SHA information: This product is regulated according to OSHA (29 CFR).
United States EI	PA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.
United States TO	CSA information: Refer to the ingredients listed in Section 3.
	Section 16. Other Information
	st revision of the safety data sheet February 04, 2018 - version 01
References	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu
Abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
ATE CAS	Acute toxicity estimate Chemical Abstract Service
ATE CAS DSL	Acute toxicity estimate Chemical Abstract Service Domestic Substance List
ATE CAS DSL IARC	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer
ATE CAS DSL IARC IATA	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association
ATE CAS DSL IARC IATA IMDG	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code
ATE CAS DSL IARC IATA IMDG LC	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration
ATE CAS DSL IARC IATA IMDG LC LD	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage
ATE CAS DSL IARC IATA IMDG LC LD NIOSH	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.)
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.)
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA WHMIS	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA WHMIS DISCLAMER: La or information pro	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average Workplace Hazardous Materials Information System ubsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product wided herein, and shall under no circumstances be liable for incidental or consequential damages. Users are responsible to verify whether the
ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA WHMIS DISCLAMER: La or information pro product is suitable	Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average Workplace Hazardous Materials Information System bsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product





		SAFETY DATA S		
		Section 1. Identi		
Product identifie		MAJESTIC TOP PRO ULTIMATE UV Part B (Top Coat Polycarbamide)	
Other means of				
Recommended u				
Initial supplier i		LabSurface. 101-1079 des Forges, Terrebonne,		56-9000
Emergency telep	ohone numl		Number 24 hours 613-996-6666	
		Section 2. Hazard Id		
		product (name of the category or subcategory	of the hazard class)	
Skin corrosion/irr				
Skin sensitization		tion (Category 2B)		
Acute toxicity, In				
Sensitisation Res				
		, single exposure, Respiratory track irritation (ST	OT. SE) (Category 3)	
		, repeated exposure (STOT, RE) (Category 2)	(Culogoly 2)	
		bols, signal words, hazard statements and prec	autionary statements of the categor	v/subcategory)
H335May cause H H373 May cause Prevention P260 + P261 Do eat, drink or smo allowed out of ventilation) wear Response IF ON SKIN: P3 contaminated clo IF INHALED: P3 If experiencing re	an allergic s inhaled allergy or a respiratory i damage to o not/Avoid l ke when usi the workpl respiratory 02 + P352 V thing and w 304 + P340 espiratory sy	skin reaction. sthma symptoms or breathing difficulties if inhale rritation organs through prolonged or repeated exposure preathing dust/fume/gas/mist/vapors/spray. P264 ng this product P271 Use only outdoors or in a v ace. P280 Wear gloves/protective clothing/glo	Wash hands/nails/face/eyes thorough yell ventilated area P272 Contaminatives/eye protection/face protection. rritation occurs: get medical advice/a e for breathing. P312 Call a doctor in	ed work clothing should not be P284 (In case of inadequate attention P362 + P364 Take off f you feel unwell. P342 + P311
If eye irritation p			act folloos, if present and easy to do.	
Storage				
	re in a well-	ventilated place. Keep container tightly closed.		
Disposal				
		ntainer into safe container in accordance with loca	I, regional or national regulations.	
Other hazards k	nown N	one		
<u></u>		Section 3. Composition/Inform	2	
Chemical name			CAS number or other	Concentration (%)*
		anate Based Polyisocyanate	28182-81-2	< 90 %
Aliphatic diisocy			822-06-0	< 0,5 %
Aliphatic polyiso		· · · · · · · · · · · · · · · · · · ·		< 20 %
*Statement - This	s safety data	sheet provides concentration range(s) instead of		trade secret(s).
		Section 4. First-Aid		
Inhalation		ED: If overexposure remove person to fresh air a		
		as needed. Asthmatic symptoms may develop at		o several hours. Extreme
Transation		reactions can be life threatening. If symptoms per		
Ingestion		LOWED: Immediately call a doctor. Prevent asp	piration of vomit. Do not give anythin	ng by mouth to an unconscious
		symptoms persist, seek medical attention.	1 1 1 1 1 . 1	
Skin contact		IN: Immediately take off contaminated clothing		
		Use lukewarm water if possible. If skin irritat		
	symptoms	s persist, seek medical attention. For sever exposu	res, immediately get under safety sho	ower and begin rinsing.



		y rinse cautiously with water for several minutes (20 - 30 minutes). Use lukewarm f present and easy to do. Continue rinsing. If eye irritation persists: Get medical
	attention.	i present and easy to do. Continue mising. If eye initiation persists. Get medical
Most important symptoms and effects (acute or delayed) Cause inhale		Causes skin and eye irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Indication of in	mediate medical attention/special treatment	
		5. Fire-Fighting Measures
Specific hazard	s of the hazardous product (hazardous comb	
	le (CO), toxic fumes.	
	suitable extinguishing media	
	Use carbon dioxide (CO ₂), dry chemical.	
	ve equipment and precautions for fire-fighte	
		nter fire area without proper protection. Firefighters should wear proper protective
equipment as req		Anidental Dalaga Maggurag
Porconal proces	section 6. A utions, protective equipment and emergency	Accidental Release Measures
		vent access. Control source of the leak. Ensure clean-up is conducted by trained
personnel only. drains, sewers, v	All persons dealing with clean-up should wear vater supplies, or soil. Do not touch or walk thro	the appropriate protective equipment (See Section 8). Prevent the spill spread into
	aterials for containment and cleaning up	
		sk. Spill should be contained with inert material and disposed into suitable retaining
		nes of liquid may be contained or absorbed into an appropriate absorbent. Keep away er. Take precautionary measures against static discharges. Dispose of in accordance
	ncial and federal regulations.	et. Take precationary measures against static discharges. Dispose of in accordance
with local, provid		7. Handling and Storage
Precautions for		7. Handning and Storage
		n hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when
using this produ	ct. Use only outdoors or in a well ventilated are	ea. Contaminated work clothing should not be allowed out of the workplace. Wear
		. (In case of inadequate ventilation) wear respiratory protection
Conditions for	safe storage, including any incompatibilities	
Conditions for a Store in a cool, ignition. Store a damaged. Storag	safe storage, including any incompatibilities well-ventilated area. Keep container closed we way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob-	I. (In case of inadequate ventilation) wear respiratory protection hen not in use. Do not handle or store near open flames, heat or other sources of Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage
Conditions for a Store in a cool, ignition. Store a damaged. Storag	safe storage, including any incompatibilities well-ventilated area. Keep container closed we way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C.	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage
Conditions for a Store in a cool, ignition. Store a damaged. Storag or leaks. Storage	safe storage, including any incompatibilities well-ventilated area. Keep container closed we way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- temperature: 16 - 27 °C. Section 8. Expos	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection
Conditions for a Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control parameter	safe storage, including any incompatibilities well-ventilated area. Keep container closed we way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C.	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values)
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control param Exposure limits: Appropriate en	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control param Exposure limits: Appropriate en Use product in	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls well-ventilated areas. Do not spray the product	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control parame Exposure limits: Appropriate en Use product in contaminants be	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 n gineering controls well-ventilated areas. Do not spray the product low exposure limits. Supply emergency safety/	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of quick-drench shower, eyewash station and washing facilities available in work area
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control parame Exposure limits: Appropriate en Use product in contaminants be and near handli	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls well-ventilated areas. Do not spray the product low exposure limits. Supply emergency safety/ ng area. Where such systems are not effective	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of quick-drench shower, eyewash station and washing facilities available in work area
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control paramo Exposure limits: Appropriate en Use product in contaminants be and near handli meets recognize	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls well-ventilated areas. Do not spray the product low exposure limits. Supply emergency safety/on g area. Where such systems are not effective d standards.	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of quick-drench shower, eyewash station and washing facilities available in work area e, wear suitable personal protection equipment which performs satisfactorily and
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control paramo Exposure limits: Appropriate en Use product in contaminants be and near handli meets recognize Individual prot	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls well-ventilated areas. Do not spray the product low exposure limits. Supply emergency safety/ ng area. Where such systems are not effective d standards. ection measures/personal protective equipmed	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of quick-drench shower, eyewash station and washing facilities available in work area e, wear suitable personal protection equipment which performs satisfactorily and ent
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control paramo Exposure limits: Appropriate en Use product in contaminants be and near handli meets recognize Individual prot Gloves: Neopren	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls well-ventilated areas. Do not spray the product low exposure limits. Supply emergency safety/on g area. Where such systems are not effective d standards. ection measures/personal protective equipment r gloves or equivalent; Clothing: Shirts with lor	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of quick-drench shower, eyewash station and washing facilities available in work area e, wear suitable personal protection equipment which performs satisfactorily and ent ng sleeves, long pants; Respiratory: Not required if working area is well ventilated.
Conditions for Store in a cool, ignition. Store a damaged. Storage or leaks. Storage Control paramo Exposure limits: Appropriate en Use product in contaminants be and near handli meets recognize Individual prot Gloves: Neoprer Use a NIOSH a protection and h	safe storage, including any incompatibilities well-ventilated area. Keep container closed wi way from incompatible materials (Section 10) ge area should be clearly identified, clear of ob- e temperature: 16 - 27 °C. Section 8. Expos eters (biological limit values or exposure limit : ACGIH – TLV-TWA CAS 28182-81-2: 0.5 r gineering controls well-ventilated areas. Do not spray the product low exposure limits. Supply emergency safety/ ing area. Where such systems are not effective d standards. ection measures/personal protective equipmed n gloves or equivalent; Clothing: Shirts with lor pproved respirators if the exposure limits are nygiene: Wash hands/nails/face thoroughly aft	hen not in use. Do not handle or store near open flames, heat or other sources of . Inspect all incoming containers to make sure they are properly labelled and not struction and accessible only to trained personnel. Inspect periodically for damage ure Controls/Personal Protection it values and source of those values) mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³ t. Local exhaust ventilation system is recommended to maintain concentrations of quick-drench shower, eyewash station and washing facilities available in work area e, wear suitable personal protection equipment which performs satisfactorily and ent mg sleeves, long pants; Respiratory: Not required if working area is well ventilated. unknown; Equipment: Safety glasses, chemical resistant. Special instructions for er handling. Do not eat, drink or smoke when using this product. Practice good
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Upper and lower flammability/explosive limits	Not available Other None known
	Section 10. Stability and Reactivity
Reactivity	
Stable under normal conditions.	
Chemical stability	
Yes, Stable under the recommended storage and har	ndling conditions prescribed.
Possibility of hazardous reactions	× ·
Non under normal conditions of storage and use.	
Conditions to avoid (static discharge, shock or	vibration)
Excess heat.	
Incompatible materials	
Acid, amine, humidity, alcohol, metal, oxidizing ag	ents.
Hazardous decomposition products	
Cyanate and isocyanate, acid, cyanogen, nitrile, hy	drogen cyanide, carbon mono and dioxide.
	Section 11. Toxicological Information
Information on the likely routes of exposure (in	
Causes skin and eye irritation. May cause an all	lergic skin reaction. Harmful if inhaled May cause allergy or asthma symptoms or breathing
difficulties if inhaled May cause respiratory irritation	ion May cause damage to organs through prolonged or repeated exposure.
Symptoms related to the physical, chemical and	l toxicological characteristics
No specific information available.	
Delayed and immediate effects (chronic effects	from short-term and long-term exposure)
Skin Sensitization – May cause allergic skin reacti	on. Skin disorders and Allergies. Respiratory Sensitization – No data available;
Germ Cell Mutagenicity – No data available; Card	cinogenicity - No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity -
No data available;	
	sure - No data available; Specific Target Organ Toxicity - Repeated Exposure - No data
available;	
	zards Not Otherwise Classified – No data available.
Numerical measures of toxicity (ATE; LD50 & 1	
CAS 28182-81-2: Acute Oral Toxicity: LD50:	> 5,000 mg/kg (rat) Estimated Value; Acute Inhalation Toxicity: LC50: 390 - 453 mg/m3,
aerosol, 4 h (rat). LD50: 20.8 mg/m3, 3 h; Acute d	lermal toxicity: LD50: > 5,000 mg/kg (rabbit); ATE not available in this document
	Section 12. Ecological Information
Ecotoxicity (aquatic and terrestrial information	
	82-81-2: LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);
Acute Toxicity to Aquatic Invertebrates: CAS 2	
	28182-81-2: EC50: > 100 mg/L (Water flea (Daphnia magna) 48 h);
Toxicity to Aquatic Plants: CAS 28182-81-2: EC	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h);
Toxicity to Aquatic Plants: CAS 28182-81-2: EC Toxicity to Microorganisms: CAS 28182-81-2: E	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).
Toxicity to Aquatic Plants: CAS 28182-81-2: ECToxicity to Microorganisms: CAS 28182-81-2: FPersistence and degradabilityCAS 28182	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.
Toxicity to Aquatic Plants: CAS 28182-81-2: ECToxicity to Microorganisms: CAS 28182-81-2: FPersistence and degradabilityBioaccumulative potentialNo data available	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.
Toxicity to Aquatic Plants: CAS 28182-81-2: ECToxicity to Microorganisms: CAS 28182-81-2: EPersistence and degradabilityCAS 28182Bioaccumulative potentialNo data availableMobility in soilNo data available	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.
Toxicity to Aquatic Plants: CAS 28182-81-2: ECToxicity to Microorganisms: CAS 28182-81-2: FPersistence and degradabilityBioaccumulative potentialNo data available	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.
Toxicity to Aquatic Plants: CAS 28182-81-2: EC Toxicity to Microorganisms: CAS 28182-81-2: H Persistence and degradability CAS 28182-81-2: H Persistence and degradability CAS 28182-81-2: H Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable. e Section 13. Disposal Considerations
Toxicity to Aquatic Plants: CAS 28182-81-2: EC Toxicity to Microorganisms: CAS 28182-81-2: H Persistence and degradability CAS 28182-81-2: H Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available Information on safe handling for disposal/meth	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable. Section 13. Disposal Considerations ods of disposal/contaminated packaging
Toxicity to Aquatic Plants: CAS 28182-81-2: EC Toxicity to Microorganisms: CAS 28182-81-2: H Persistence and degradability CAS 28182-81-2: H Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available Information on safe handling for disposal/meth	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable. Section 13. Disposal Considerations ods of disposal/contaminated packaging n accordance with local, regional or national regulations.
Toxicity to Aquatic Plants: CAS 28182-81-2: EC Toxicity to Microorganisms: CAS 28182-81-2: H Persistence and degradability CAS 28182-81-2: H Persistence and degradability CAS 28182-81-2: H Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available Information on safe handling for disposal/meth Dispose of contents/container into safe container int	C50: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h). -81-2: 0%, Exposure time: 28 Days, Not readily biodegradable. Section 13. Disposal Considerations ods of disposal/contaminated packaging n accordance with local, regional or national regulations. Section 14. Transport Information
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United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.			
United States TCSA information: Refer to the ingredients listed in Section 3.			
	Section 16. Other Information		
Date of the latest revision of the safety data sheet February 04, 2018 - version 01			
References	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu		
Abbreviations			
ACGIH	American Conference of Governmental Industrial Hygienists		
ATE	Acute toxicity estimate		
CAS	Chemical Abstract Service		
DSL	Domestic Substance List		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods Code		
LC	Lethal concentration		
LD	Lethal Dosage		
NIOSH	National Institute for Occupational Safety and Health		
NTP	National Toxicology Program (U.S.A.)		
OSHA	Occupational Safety and Health Administration (U.S.A.)		
PEL	Permissible Exposure Limit		
STEL	Short-term Exposure Limit		
TDG	Transport of dangerous goods in Canada		
TLV	Threshold Limit Value		
TSCA	Toxic Substances Control Act		
TWA	Time Weighted Average		
WHMIS	Workplace Hazardous Materials Information System		
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or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Users are responsible to verify whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. In order to meet our strict requirements,			
we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data			
included in this reference document may not be up to date as of the date of reference.			