

## SAFETY DATA SHEET (SDS)

		SAFETY DATA SH		
		Section 1. Ident	ification	
Product identifi	er LABFAST LO, Part A			
Other means of	identification LFL-000-A			
Recommended	use and restrictions on use Floor C	oating		
Initial supplier			onne, QC, J6Y 0J9 (Canada) Tél. (45	0) 966-9000
		Canada - Handling (45		
		U V	NUTEC Number 24 hours 613-996-	6666
		Canada - Transport Cr	interfective and the second se	0000
		Section 2. Hazard Id	lentification	
Classification	f hazardous product (name of the ca			
Skin sensitization		legoly of subcategoly	of the hazaru class)	
	aquatic environment, long-term hazar	rd (Category 3)		
Hazardous to the	aquate environment, iong-term nazar	a (Calcegoly 5)		
Information ala	ments (symbols, signal words, hazar	d statements and nree	outionary statements of the catego	ry/subcatagory)
	ments (symbols, signal words, nazar	u statements and prec	autionary statements of the catego	Ty/subcategory)
Warning				
	an allergic skin reaction			
H412 Harmful to	aquatic life with long lasting effects			
<b>D</b> (1				
Prevention				
	thing dust/fume/gas/mist/vapors/spray			ut of the workplace. P273 Avoid
release to the env	vironment P280 Wear gloves/protective	e clothing/gloves/eye p	rotection/face protection.	
Response				
IF ON SKIN: P3	02 + P352 Wash with plenty of water.	P333 + P313 If skin in	ritation or rash occurs: Get medical	attention. P362 + P364 Take off
contaminated clo	othing and wash it before reuse.			
Storage				
P403 Store in a v	vell-ventilated place.			
	L L			
Disposal				
P501 Dispose of	contents/container into safe container	in accordance with loca	al, regional or national regulations.	
Other hazards l	known None			
	Section 3.	Composition/Inform	nation on Ingredients	
Chemical name	(common name/synonyms)	··· ·	CAS number or other	Concentration (%)*
Aspartic Acid N	[,N'-(methylenedi-4,1-cyclohexanediyl	)his- 11'44'-	136210-30-5	< 70 %
tetraethyl ester	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	150210-50-5	< 70 %
	N-methylenebis(2-methyl-4,1-cyclohe	wanadivilibis	136210-32-7	< 50 %
tetraethyl ester	in-meuryreneois(2-meuryr-4,1-cyclone	xalleury1)015-,	130210-32-7	< 50 %
	f	:	<u> </u> +h	d +== d= == === + (=)
*Statement - Th	s safety data sheet provides concentrat			d trade secret(s).
		Section 4. First-Aid		
Inhalation		ove person to fresh air	and keep comfortable for breathing. I	f symptoms persist, seek
	medical attention.			
Ingestion	IF SWALLOWED: Immediately ca			
Skin contact	IF ON SKIN: Take off contaminated clothing, wash immediately with soap and plenty of water (20 - 30 minutes). If skin irritation			
	occurs: Get medical attention. Wash	clothing before reuse.	If symptoms persist, seek medical at	tention.
Eye contact			tes (20 - 30 minutes). Remove conta	
<b>J</b> · · · · · · · ·	do. Continue rinsing. If eye irritation			, r
Most important	symptoms and effects (acute or dela		an allergic skin reaction.	
	mediate medical attention/special tr			ument
inuication of III				ument.
G 101		ection 5. Fire-Fight		
•	s of the hazardous product (hazardo	us combustion produ	ets)	
Toxic fumes.				
Suitable and my	• • • • • • •			
	suitable extinguishing media			
	suitable extinguishing media (se Carbon dioxide (CO <sub>2</sub> ), dry chemica	l, alcohol resistant foar	n, dry sand, water.	
In case of fire: U			n, dry sand, water.	



During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper			
protective equipment and self-contained breathing apparatus with full face piec			
Section 6. Accidental R Personal precautions, protective equipment and emergency procedures	telease measures		
Restrict access to area until completion of clean-up. Ensure clean-up is conduction	cted by trained personnel only. All persons dealing with clean-up should		
wear the appropriate protective equipment (See Section 8). Prevent the spill sp			
Methods and materials for containment and cleaning up			
Avoid prolonged exposure. Ventilate area of release. Stop the leak if it can l			
walk through spilled material. Spill should be contained with inert material and			
contained or absorbed into an appropriate absorbent. Keep away from all wa	tercourses. Do not flush down storm or sanitary sewer. Dispose of in		
accordance with local, provincial and federal regulations. Section 7. Handling	and Stanage		
Precautions for safe handling	, and Storage		
Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work cloth	ing should not be allowed out of the workplace. Avoid release to the		
environment. Wear gloves/protective clothing/gloves/eye protection/face pro			
Conditions for safe storage, including any incompatibilities			
Store in a cool, well-ventilated area. Keep container closed when not in us			
ignition. Store away from incompatible materials (Section 10). Inspect all i			
damaged. Storage area should be clearly identified, clear of obstruction and a leaks. Storage temperature: 16 - 27 °C.	ccessible only to trained personnel. Inspect periodically for damage or		
Section 8. Exposure Control	ls/Parsonal Protection		
Control parameters (biological limit values or exposure limit values and			
Exposure limits ACGIH – TLV- TWA Not available	source of those values)		
Appropriate engineering controls			
Use product in well-ventilated areas. Do not spray the product. Local exhau	ust ventilation system is recommended to maintain concentrations of		
contaminants below exposure limits. Supply emergency safety/quick-drench			
and near handling area. Where such systems are not effective, wear suitable p	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, lor			
Use a NIOSH approved respirators if the exposure limits are unknown; Equip protection and hygiene: Wash hands/nails/face thoroughly after handling. Do			
personal hygiene after using this material. Remove and wash contaminated w			
use and handling of this product. Follow all label instructions.	ork clothing before re-use. Educate and train employees in the safe		
Section 9. Physical and C	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		
Melting/freezing point         Not available	Partition coefficient - n-octanol/water Not available		
Initial boiling point/range Not available	Auto-ignition temperature 165 °C		
Flash point     > 65 °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           Section 10. Stability	Other None known		
Reactivity Section 10. Stability			
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			
Oxidizing agents, acid and isocyanate.			
Hazardous decomposition products			
Ammonia, nitrogen oxides, carbon mono and dioxide CO <sub>2</sub> ) (CO), amines.			
Section 11. Toxicological Information			
Information on the likely routes of exposure (inhalation, ingestion, skin a	and eye contact)		



May aguas an al	lancie strip respection		
	llergic skin reaction. ted to the physical, chemical and toxicological characteristics		
Skin irritation.	teu to the physical, chemical and toxicological characteristics		
	mediate effects (chronic effects from short-term and long-term exposure)		
	on – May cause allergic skin reaction; Respiratory Sensitization – No data available;		
	agenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity –		
No data availabl			
	organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available;		
	urd – No data available; Health Hazards Not Otherwise Classified – No data available.		
	sures of toxicity (ATE; LD <sub>50</sub> & LC <sub>50</sub> )		
	-5: LD <sub>50</sub> Oral/Dermal - Rat > 2.000 mg/kg; LC <sub>50</sub> Inhalation - Rat > 4.224 mg/m <sup>3</sup> 4hrs; ATE not available in this document.		
CAS 150210-50	Section 12. Ecological Information		
Footovicity (og	uatic and terrestrial information)		
	: CAS 136210-30-5: LC <sub>50</sub> : 66mg/l (Zebra fish (Brachydanio rerio) 96h);		
	atic Invertebrates: CAS 136210-30-5 EC <sub>50</sub> : 88.6 mg/l (Water flea (Daphnia magna) 48h) ;		
	atic and Terrestrial Plants: CAS 136210-30-5 EC <sub>50</sub> . 3810 mg/l (Water free (Daphina magna) 480), atic and Terrestrial Plants: CAS 136210-30-5 EC <sub>50</sub> : 3110 mg/l (Green algae (Scenedesmus subspicatus) 72h); 113 mg/l, 72h.		
Persistence and			
Bioaccumulativ Mobility in soil			
Other adverse e			
	Section 13. Disposal Considerations		
	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		
	roper shipping name; Class(es); Packing group (PG) of the TDG Regulations		
Not regulated			
UN number; Pr	roper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)		
Not regulated			
UN number; Pi	roper shipping name; Class(es); Packing group (PG) of the IATA (air)		
Not regulated			
	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		
Survey/neurin C	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).		
	PA (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 late	est revision of the safety data sheet February 04, 2018 - version 1		
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	Chemical Abstract Service Domestic Substance List		
IARC	International Agency for Research on Cancer		
IATA	International Agency for Research on Cancel		
IMDG	International Maritime Dangerous Goods Code		
LC	Lethal concentration		
LC	Lethal Dosage		
NIOSH	National Institute for Occupational Safety and Health		
	National Toxicology Program (U.S.A.)		
NTP	National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.)		
NTP OSHA	Occupational Safety and Health Administration (U.S.A.)		
NTP OSHA PEL	Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit		
NTP OSHA	Occupational Safety and Health Administration (U.S.A.)		



TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
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## SAFETY DATA SHEET (SDS) Section 1. Identification

		Section 1. Ident	incation	
Product identifier				
Other means of id				
		Coating		0) 0.55 0.000
Initial supplier id	entifier   LabSurface. 101-1079 none number/restriction on use	, rue des Forges, Terreb Canada - Handling (45	onne, QC, J6Y 0J9 (Canada) Tél. (45	0) 966-9000
Emergency teleph	ione number/restriction on use		ANUTEC Number 24 hours 613-996-	6666
		Section 2. Hazard I		0000
Classification of h	azardous product (name of the c			
	itation (Category 2)	allegory of subcallegory	of the hubble a chubb)	
Skin sensitization (				
	e/eye irritation (Category 2A)			
	alation (Category 4)			
	iratory (Category 1)		ta 2)	
	an toxicity, single exposure; Respir quatic environment, long-term haz		tegory 3)	
			cautionary statements of the catego	rv/subcategorv)
	<u>ents (</u> symbols, signar words, naze	in a statements and pres	cutionary statements of the catego	iy/subcategoly)
Warning				
H315 Causes skin	irritation			
	n allergic skin reaction.			
H319 Causes serio				
H332 Harmful if ir				
	llergy or asthma symptoms or brea	thing difficulties if inhal	ed.	
	spiratory irritation.			
H412 Harmful to a	quatic life with long lasting effects			
eat, drink or smoke allowed out of the	e when using this product P271 Us	se only outdoors or in a the environment. P280 V	Wash hands/nails/face/eyes thorougl well-ventilated area P272 Contaminat Vear gloves/protective clothing/gloves	ted work clothing should not be
contaminated cloth IF INHALED: P30 experiencing respir IF IN EYES: P305	ing and wash it before reuse. 4 + P340 Remove person to fresh a ratory symptoms: Call a POISON (	air and keep comfortable CENTER/doctor.	irritation occurs get medical advice/a for breathing. P312 Call a doctor if natct lenses, if present and easy to do.	you feel unwell. P342 + P311 If
<b>Storage</b> P403 + P233 Store	in a well-ventilated place. Keep co	ontainer tightly closed. P	405 Store locked up.	
		er in accordance with loc	al, regional or national regulations.	
Other hazards kn		Composition/Inform	mation on Ingredients	
Chamical name (	common name/synonyms)	. Composition/milor	CAS number or other	Concentration (%)*
	e Diisocyanate Based Polyisocyan	ate	28182-81-2	60 - 100 %
Aliphatic diisocyar		uit	822-06-0	<1%
		ration range(s) instead of	the actual concentration(s) considere	
Statement - THIS	sarcty data sheet provides concenti	Section 4. First-aid		
	IF INHALED: If overexposure rer medical attention.	nove person to fresh air	and keep comfortable for breatning. I	f symptoms persist, seek
	IF INHALED: If overexposure rer medical attention. IF SWALLOWED: Immediately c	-		f symptoms persist, seek



	I HON SKIN. Lake off contaminated clothing	wash immediately with soan and i	
Skin contact	occurs: Get medical attention. Wash clothing		blenty of water (20 - 30 minutes). If skin irritation, seek medical attention.
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 irritation persists: Get medical attention.		
Most important symptoms and effects (acute or delayed)Causes skserious ey		Causes skin and eye irritation serious eye irritation. Harmful it	. May cause an allergic skin reaction. Causes inhaled. May cause allergy or asthma symptoms ed. May cause respiratory irritation.
Indication of in	mediate medical attention/special treatment	In all cases, call a doctor. Do no	
		Fire-Fighting Measures	
Specific hazard	s of the hazardous product (hazardous combu	0 0	
Toxic fumes.		·····	
	suitable extinguishing media		
	Jse limestone powder, carbon dioxide (CO2), dry	chemical.	
	ve equipment and precautions for fire-fighter		
	itating/toxic fumes may be generated. Do not ent	er fire area without proper protec	tion. Firefighters should wear proper protective
equipment as req		······································	
Demonal process	Section 6. Ac itions, protective equipment and emergency p	ccidental Release Measures	
	nergency personnel. Isolate the area and prevent a		Ensure clean-up is conducted by trained
personnel only.	All persons dealing with clean-up should wear th vater supplies, or soil.		
	aterials for containment and cleaning up		
	l exposure. Spill should be contained with inert n	naterial and disposed into suitable	e retaining area. Small volumes of liquid may be
	orbed into an appropriate absorbent. Keep away	from all watercourses. Do not flu	ish down storm or sanitary sewer. Dispose of in
accordance with	local, provincial and federal regulations.		
		. Handling and Storage	
Precautions for			
Do not/Avoid by	eathing dust/fume/gas/mist/yapors/spray_Wash l	hands/nails/face/aves thoroughly	often hendling. De net est drink en smelse when
			after handling. Do not eat, drink or smoke when
using this produ	ct. Use only outdoors or in a well-ventilated area	. Contaminated work clothing she	ould not be allowed out of the workplace. Avoid
using this produ release to the e	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g	. Contaminated work clothing she	ould not be allowed out of the workplace. Avoid
using this produ release to the e respiratory prote	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g oction.	. Contaminated work clothing she	ould not be allowed out of the workplace. Avoid
using this produce release to the expiratory protection <b>Conditions for</b>	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g	. Contaminated work clothing she loves/eye protection/face protec	buld not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g ection. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10).	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or s Inspect all incoming containers t	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g ection. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). te area should be clearly identified, clear of obstru-	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or s Inspect all incoming containers t	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g ction. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). ge area should be clearly identified, clear of obstru- mperature: 16 - 27 °C.	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or so Inspect all incoming containers to action and accessible only to train	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or
using this produ release to the erespiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag leaks. Storage te	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g ction. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). ge area should be clearly identified, clear of obstru- mperature: 16 - 27 °C. Section 8. Exposu	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or so Inspect all incoming containers to action and accessible only to train re Controls/Personal Protection	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or tion
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag leaks. Storage te <b>Control parame</b>	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g action. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). e area should be clearly identified, clear of obstru- mperature: 16 - 27 °C. Section 8. Exposu eters (biological limit values or exposure limit	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or subsect all incoming containers to action and accessible only to train re Controls/Personal Protection values and source of those values	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or tion
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag leaks. Storage te <b>Control parame</b> Exposure limits	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g ction. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). ge area should be clearly identified, clear of obstru- mperature: 16 - 27 °C. Section 8. Exposu	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or subsect all incoming containers to action and accessible only to train re Controls/Personal Protection values and source of those values	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or tion
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag leaks. Storage te <b>Control param</b> Exposure limits <b>Appropriate en</b>	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g action. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). ge area should be clearly identified, clear of obstru- mperature: 16 - 27 °C. Section 8. Exposu eters (biological limit values or exposure limit ACGIH – TLV- TWA: CAS 28182-81-2: 0.5 mg gineering controls	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or se Inspect all incoming containers to action and accessible only to train re Controls/Personal Protection values and source of those value g/m <sup>3</sup> ; CAS 822-06-0: 0.02 mg/m <sup>3</sup>	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear store near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or tion es)
using this produ release to the e respiratory prote <b>Conditions for</b> Store in a cool, ignition. Store a damaged. Storag leaks. Storage te <b>Control parame</b> <b>Exposure limits</b> <b>Appropriate en</b> Use product in contaminants be	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g action. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). te area should be clearly identified, clear of obstru- mperature: 16 - 27 °C. Section 8. Exposu eters (biological limit values or exposure limit ACGIH – TLV- TWA: CAS 28182-81-2: 0.5 mg gineering controls well-ventilated areas. Do not spray the product. low exposure limits. Supply emergency safety/qu	. Contaminated work clothing she loves/eye protection/face protection en not in use. Do not handle or set Inspect all incoming containers to action and accessible only to train re Controls/Personal Protection values and source of those value /m <sup>3</sup> ; CAS 822-06-0: 0.02 mg/m <sup>3</sup> Local exhaust ventilation system tick-drench shower, eyewash stat	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear tore near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or tion es) is recommended to maintain concentrations of ion and washing facilities available in work area
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using this produ         release to the e         respiratory protect         Conditions for         Store in a cool,         ignition. Store a         damaged. Storage te         leaks. Storage te         Exposure limits         Appropriate en         Control parame         Appropriate en         Use product in contaminants be         and near handling         recognized stand         Individual prot         Gloves: Neopret         Use a NIOSH at         protection and h         personal hygiend         use and handling         Appearance, pl         Odour       Faint contaming         Melting/freezin         Initial boiling p         Flash point       2	ct. Use only outdoors or in a well-ventilated area environment. Wear gloves/protective clothing/g action. safe storage, including any incompatibilities well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). ge area should be clearly identified, clear of obstru- mperature: 16 - 27 °C. Section 8. Exposu eters (biological limit values or exposure limit ACGIH – TLV- TWA: CAS 28182-81-2: 0.5 mg gineering controls well-ventilated areas. Do not spray the product. low exposure limits. Supply emergency safety/qu g area. Where such systems are not effective, we lards. ection measures/personal protective equipment n gloves or equivalent; Clothing: Shirts with long poroved respirators if the exposure limits are unkny giene: Wash hands/nails/face thoroughly after h e after using this material. Remove and wash con g of this product. Follow all label instructions. Section 9. Phys mysical state/colour Liquid door d Not available lable g point Not available oint/range Not available > 65 °C	. Contaminated work clothing she loves/eye protection/face protection/face protection/face protection en not in use. Do not handle or sinspect all incoming containers the function and accessible only to train re Controls/Personal Protection values and source of those value ym <sup>3</sup> ; CAS 822-06-0: 0.02 mg/m <sup>3</sup> Local exhaust ventilation system tick-drench shower, eyewash stat ar suitable personal protection equal sleeves, long pants; Respiratory: nown; Equipment: Safety glasses, andling. Do not eat, drink or smo taminated work clothing before re- ical and Chemical Propertie Vapour pressure Vapour density Relative density Solubility Reacts Partition coefficier Auto-ignition temp	build not be allowed out of the workplace. Avoid tion. (In case of inadequate ventilation) wear         attore near open flames, heat or other sources of o make sure they are properly labelled and not ed personnel. Inspect periodically for damage or         tion         ess         is recommended to maintain concentrations of ion and washing facilities available in work area aipment which performs satisfactorily and meets         Not required if working area is well ventilated. chemical resistant. Special instructions for ke when using this product. Practice good e-use. Educate and train employees in the safe         s         Not available         s         tt - n-octanol/water       Not available         perature       165 °C         uperature       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. Exposure to moisture			
Incompatible materials			
Copper, amine, oxidizing agents, humid air, water, alcohol, metals, acid, strong bases. Hazardous decomposition products			
Isocyanate, carbamate, cyanic acid, cyanogen, nitrile, toxic cyanate, hydrogen cyanide, Carbon dioxide (CO <sub>2</sub> ), carbon mono (CO)			
Section 11. Toxicological Information			
<b>Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)</b> Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or as	thene		
symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Causes serious eye irritation. Harmful if inhaled. May cause allergy or as	tnma		
Symptoms of oreating difficulties if initiated. May cause respiratory initiation.			
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;			
Cell Mutagenicity – Animal genetic toxicity studies were negative (Salmonella typhimurium, Metabolic Activation: with/without); Carcinogen	icity		
- No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – No data available;	nenty		
Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – 3 weeks inhala	tion		
NOAEL: 3.7-4.3 mg/m <sup>3</sup> , (rat); 90 days inhalation: NOAEL: 3.3-3.4 mg/m <sup>3</sup> , (rat) irritation to lungs and nasal cavity;	uion.		
Aspiration Hazard – Based on physical properties, not likely to be an aspiration hazard; Health Hazards Not Otherwise Classified – No data avai	able		
Numerical measures of toxicity (ATE; LD50 & LC50)	u010.		
CAS 28182-81-2 LD <sub>50</sub> Oral - Rat - > 5,000 mg/kg; LD <sub>50</sub> Dermal - Rabbit - 5,000 mg/kg; LC <sub>50</sub> Inhalation - Rat - 390-453 mg/m <sup>3</sup> 4hrs;			
ATE not available in this document.			
Section 12. Ecological Information			
Ecotoxicity (aquatic and terrestrial information)			
<b>Ecotoxicity (aquatic and terrestrial information)</b> Acute and prolonged Toxicity to Fish: CAS 28182-81-2: Acute and Prolonged LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);			
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Acute and prolonged Toxicity to Fish: CAS 28182-81-2: Acute and Prolonged LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);         Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2: EC50: > 100 mg/L. (Water flea (Daphnia magna) 48 h);         Toxicity to Aquatic Plants: CAS 28182-81-2: EC50: > 1,000 mg/L., (Green algae (Scenedesmus subspicatus) 72 h);         Toxicity to Microorganisms: CAS 28182-81-2: EC50: > 1,000 mg/L., (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.         Bioaccumulative potential       No data available         Mobility in soil       No data available         Other adverse effects       Harmful to aquatic life with long lasting effects.         Section 13. Disposal Considerations         Information on safe handling for disposal/methods of disposal/contaminated packaging         Dispose of contents/container into safe container in accordance with local, regional or national regulations.         Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations         Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)         Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)         Not regulated         Epecial precautions (transport/conveyance)       None         Envi			
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Acute and prolonged Toxicity to Fish: CAS 28182-81-2; Acute and Prolonged LC50; > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);         Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2 EC50; > 100 mg/L (Water flea (Daphnia magna) 48 h);         Toxicity to Aquatic Plants: CAS 28182-81-2 EC50; > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h);         Toxicity to Microorganisms: CAS 28182-81-2 EC50; > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50; > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability in soil       No data available         Other adverse effects       Harmful to aquatic life with long lasting effects.         Bioaccumulative potential       No data available         Other adverse effects       Harmful to aquatic life with long lasting effects.         Information on safe handling for disposal/methods of disposal/contaminated packaging       Dispose of contents/container into safe container in accordance with local, regional or national regulations.         VIN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations       Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)       Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)       None         Special precautions (transport/conveyance)       None         Environmental hazards (IMDG or other)       None <td></td>			
Acute and prolonged Toxicity to Fish: CAS 28182-81-2: Acute and Prolonged LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);         Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2: EC50: > 100 mg/L (Water flea (Daphnia magna) 48 h);         Toxicity to Aquatic Invertebrates: CAS 28182-81-2: EC50: > 1000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h);         Toxicity to Microorganisms: CAS 28182-81-2: EC50: > 1000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.         Bioaccumulative potential       No data available         Other adverse effects       Harmful to aquatic life with long lasting effects.         Section 13. Disposal Considerations       Information on safe handling for disposal/methods of disposal/contaminated packaging         Dispose of contents/container into safe container in accordance with local, regional or national regulations.       Section 14. Transport Information         UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations       Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)       None         Special precautions (transport/conveyance)       None         Environmental hazards (MDG or other)       None         Special precautions (transport/conveyance)       None         Safety/health Canadian regulations specifics       This product has been classified in accordance with the hazard cri	ducts		
Acute and prolonged Toxicity to Fish: CAS 28182-81-2: Acute and Prolonged LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);         Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2: EC50: > 100 mg/L (Water flea (Daphnia magna) 48 h);         Toxicity to Aquatic Plants: CAS 28182-81-2: EC50: > 1000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h);         Toxicity to Microorganisms: CAS 28182-81-2: EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.         Bioaccumulative potential       No data available         Other adverse effects       Harmful to aquatic life with long lasting effects.         Section 13. Disposal Considerations       Information on safe handling for disposal/methods of disposal/contaminated packaging         Dispose of contents/container into safe container in accordance with local, regional or national regulations.       Section 14. Transport Information         UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations       Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)       Note         Not regulated       Special precautions (transport/conveyance)       None         Environmental hazards (IMDG or other)       None       None         Safety/health Canadian regulations specifics       Tis product has been classified in accordance with the hazard criteria of the Hazardous Pro Regulations (HPR).	ducts		
Acute and prolonged Toxicity to Fish: CAS 28182-81-2: Acute and Prolonged LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);         Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2 EC50: > 1000 mg/L (Water flea (Daphnia magna) 48 h);         Toxicity to Microorganisms: CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated Sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2 EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Bioaccumulative potential       No data available         Mobility in soil       No data available         Section 13. Disposal Considerations       Section 13. Disposal Considerations         Information on safe handling for disposal/methods of disposal/contaminated packaging       Dispose of contents/container in accordance with local, regional or national regulations.         VI number; Proper shipping name; Class(es); Packing group (PG) of the IDG Regulations       Not regulated	ducts		
Acute and prolonged Toxicity to Fish: CAS 28182-81-2: Acute and Prolonged LC50: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h);         Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2: EC50: > 100 mg/L (Water flea (Daphnia magna) 48 h);         Toxicity to Aquatic Plants: CAS 28182-81-2: EC50: > 1000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h);         Toxicity to Microorganisms: CAS 28182-81-2: EC50: > 1,000 mg/L, (Activated sludge microorganism, 3 h).         Persistence and degradability       CAS 28182-81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.         Bioaccumulative potential       No data available         Other adverse effects       Harmful to aquatic life with long lasting effects.         Section 13. Disposal Considerations       Information on safe handling for disposal/methods of disposal/contaminated packaging         Dispose of contents/container into safe container in accordance with local, regional or national regulations.       Section 14. Transport Information         UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations       Not regulated         UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)       Note         Not regulated       Special precautions (transport/conveyance)       None         Environmental hazards (IMDG or other)       None       None         Safety/health Canadian regulations specifics       Tis product has been classified in accordance with the hazard criteria of the Hazardous Pro Regulations (HPR).			



	PA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.
	Section 16. Other Information
Date of the late	st revision of the safety data sheet November 27, 2018 - version 2
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
or information pro product is suitable we are continuous	bsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product vided herein, and shall under no circumstances be liable for incidental or consequential damages. Users are responsible to verify whether the 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, ly testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data ference document may not be up to date as of the date of reference.
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