




## SAFETY DATA SHEET (SDS)

### Section 1. Identification

<b>Product identifier</b>	LABFAST VOC EXEMPT COLOR, Part A –V03
<b>Other means of identification</b>	LFV-000- Color -A
<b>Recommended use and restrictions on use</b>	Floor coating
<b>Initial supplier identifier</b>	LabSurface. 101-1079 des Forges, Terrebonne, J6Y 0J9, Qué (Canada) Tél. (450) 966-9000
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC Number 24 hours 613-996-6666

### Section 2. Hazard Identification

<b>Classification of hazardous product (name of the category or subcategory of the hazard class)</b>	
Flammable liquid (Category 2) Skin corrosion/irritation (Category 2) Skin sensitization (Category 1) Serious eye damage/eye irritation (Category 2A) Acute toxicity Oral and Inhalation (Category 4) Specific target organ toxicity, single exposure, Respiratory tract irritation (Category 3) Carcinogenicity (Category 2) Specific target organ toxicity, single exposure, Narcotic effects (Category 3) Specific target organ toxicity, repeated exposure (Category 2) Hazardous to the aquatic environment, acute hazard (Category 3) Hazardous to the aquatic environment, long-term hazard (Category 2)	
<b>Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)</b>	
<div></div> <p><b>Warning</b> H225 Highly flammable liquid and vapor H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H302 + H332 Harmful if swallowed and inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure H402 Harmful to aquatic life H411 Toxic to aquatic life with long lasting effects</p> <p><b>Prevention</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment P241 Use explosion-proof (electrical/ventilating/lighting) equipment P242 Use non-sparkling tools P243 Take action to prevent static discharges P260 + P261 Do not/Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment P280 Wear gloves/protective clothing/gloves/eye protection/face protection.</p> <p><b>Response</b> IF SWALLOWED: P301 + P312 Call POISON CENTER/doctor if you feel unwell P330 Rinse mouth IF ON SKIN: P302 + P352 Wash with plenty of water. P303+P361+P353 If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water (or shower) P362 + P364 Take off contaminated clothing and wash it before reuse. P333 +P313 If skin irritation or rash occurs: Get medical advice/attention IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 Call a doctor if you feel unwell. IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. IN CASE OF FIRE: P370 + P378 Use manufacturer/supplier or the competent authority to specify appropriate media. P308 + P313 IF exposed or concerned: Get medical attention. ENVIRONMENT P391 Collect spillage</p> <p><b>Storage</b> P403 + P233 Store in a well-ventilated place. Keep container tightly closed P235 Keep cool P405 Stored locked up</p> <p><b>Disposal</b> P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.</p>	
<b>Other hazards known</b>	None



Section 3. Composition/Information on Ingredients		
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester	136210-30-5	< 70 %
Polyaspartic Polyurea Resin	136210-32-7	< 40 %
Parachlorobenzotrifluoride, 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	< 15 %
Acétate de butyle tertiaire	540-88-5	< 10 %
<b>Colors may contain:</b>		
Titanium dioxide	13463-67-7	< 25 %
Amorphous silica	7631-86-9	< 2 %
Aluminium hydroxide	21645-51-2	< 2 %
Carbon black	1333-86-4	< 25 %
*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).		
Section 4. First-Aid Measures		
<b>Inhalation</b>	IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. If symptoms persist, seek medical attention.	
<b>Ingestion</b>	IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit.	
<b>Skin contact</b>	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 attention.	
<b>Eye contact</b>	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.	
<b>Most important symptoms and effects (acute or delayed)</b>		Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if swallowed and inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
<b>Indication of immediate medical attention/special treatment</b>		In all cases, call a doctor. Do not forget this document.
Section 5. Fire-Fighting Measures		
<b>Specific hazards of the hazardous product (hazardous combustion products)</b>		
Toxic fumes.		
<b>Suitable and unsuitable extinguishing media</b>		
In case of fire: Use Carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol resistant foam, dry sand, water.		
<b>Special protective equipment and precautions for fire-fighters</b>		
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required..		
Section 6. Accidental Release Measures		
<b>Personal precautions, protective equipment and emergency procedures</b>		
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. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Work with non-sparking tools. Do not touch or walk through spilled material.		
<b>Methods and materials for containment and cleaning up</b>		
Avoid prolonged exposure. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Spill should be contained with inert material and disposed into suitable retaining area. 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. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.		
Section 7. Handling and Storage		
<b>Precautions for safe handling</b>		
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof (electrical/ventilating/lighting) equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection.		
<b>Conditions for safe storage, including any incompatibilities</b>		
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 CAS 540-88-5: 50 ppm; 150 ppm STEL. Exposure limits CAS 1333-86-4 – ACGIH – TLV-TWA 3 mg/m<sup>3</sup> & PEL-TWA 3.5 mg/m<sup>3</sup>; CAS 13463-67-7 ACGIH – TLV-TWA 10 mg/m<sup>3</sup> & PEL-TWA 10 mg/m<sup>3</sup>; CAS 7631-86-9 PEL-TWA 80 mg/m<sup>3</sup>; CAS 21645-51-2 ACGIH – TLV-TWA 1 mg/m<sup>3</sup>

### 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

<b>Appearance, physical state/colour</b>	Liquid	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Faint naphthalene odor	<b>Vapour density</b>	Not available
<b>Odour threshold</b>	Not available	<b>Relative density</b>	Not available
<b>pH</b>	Not available	<b>Solubility</b>	Not soluble
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	Not available	<b>Auto-ignition temperature</b>	335 °C
<b>Flash point</b>	Approx. 4°C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	Not available
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	Not available	<b>Other</b>	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

Oxidizing agents, acid and isocyanate

### Hazardous decomposition products

Ammonia, nitrogen oxides, carbon mono and dioxide, amines

## Section 11. Toxicological Information

### Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if swallowed and inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

### 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 – Ingredient listed by IARC, ACGIH, NTP or OSHA; Genotoxicity in vitro/in vivo: Result negative. 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.

### Numerical measures of toxicity (ATE; LD<sub>50</sub> & LC<sub>50</sub>)

CAS 136210-30-5: Acute toxicity oral/dermal LD50-rat: > 2000 mg/kg; Acute Toxicity Inhalation: LD50-rat: >4.224 mg/m<sup>3</sup> 4h; CAS 540-88-5: Acute toxicity oral LD50-rat: > 4100 mg/kg; Acute toxicity dermal LD50-rabbit: > 2000 mg/kg; Acute Toxicity Inhalation: LD50-rat: > 13300 mg/m<sup>3</sup> 4h; ATE not available in this document.

## Section 12. Ecological Information

### Ecotoxicity (aquatic and terrestrial information)

**Toxicity to fish** CAS 136210-30-5: - LC50: 66mg/l (Zebra fish (Brachydanio rerio) 96h); CAS 98-56-6: LC50: 11.5 – 15.8 mg/l (Lepomis



macrochirus) 48h; CAS 540-88-5: LC50: 296 – 362 mg/l (Pimephales promelas) 96h.	
<b>Toxicity to Aquatic Invertebrates:</b> EC 50: 88.6 mg/l (Water flea (Daphnia magna) 48h);	
<b>Toxicity to Aquatic and Terrestrial Plants:</b> EC 50: 3110 mg/l (Green algae (Scenedesmus subspicatus) 72h); 113 mg/l, 72h;	
<b>Persistence and degradability</b>	CAS 136210-30-5: Not readily biodegradable.
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Harmful to aquatic life. Toxic to aquatic life with long lasting effects.
<b>Section 13. Disposal Considerations</b>	
<b>Information on safe handling for disposal/methods of disposal/contaminated packaging</b>	
Dispose of contents/container into safe container in accordance with local, regional or national regulations.	
<b>Section 14. Transport Information</b>	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations</b>	
UN1263; PAINT RELATED MATERIAL; Class 3; PG II	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)</b>	
UN1263; PAINT RELATED MATERIAL; Class 3; PG II	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)</b>	
UN1263; PAINT RELATED MATERIAL; Class 3; PG II	
<b>Special precautions (transport/conveyance)</b>	May also be shipped as a LIMITED QUANTITY in accordance with TDG
<b>Environmental hazards (IMDG or other)</b>	None
<b>Bulk transport (usually more than 450 L in capacity)</b>	Possible
<b>Section 15. Regulatory Information</b>	
<b>Safety/health Canadian regulations specifics</b>	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
<b>Environmental Canadian regulations specifics</b>	Refer to Section 3 for ingredient(s) of the DSL
<b>Safety/health/environmental outside regulations specifics</b>	
United States OSHA information: This product is regulated according to OSHA (29 CFR).	
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. California Proposition 65: For Color, White and Black <b>WARNING:</b> This product contains Titanium dioxide (CAS 13467-67-7) & Carbon black (CAS 1333-86-2) known to the State of California to cause cancer or other reproductive harm.	
<b>Section 16. Other Information</b>	
<b>Date of the latest revision of the safety data sheet</b>	May 05, 2021 - version 03
<b>Corrections</b>	Sections 1; 2; 3; 4; 7; 8; 9; 11; 15 (November 22-2019)V-02 Sections 9, 14(May 05-2021) V-03
<b>References</b>	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu
<b>Abbreviations</b>	
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
DISCLAIMER: Labsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product 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.	




## SAFETY DATA SHEET (SDS)

### Section 1. Identification

<b>Product identifier</b>	LABFAST VOC EXEMPT, Part B –V03
<b>Other means of identification</b>	LFV-B
<b>Recommended use and restrictions on use</b>	Floor Coating
<b>Initial supplier identifier</b>	LabSurface. 101-1079, rue des Forges, Terrebonne, QC, J6Y 0J9 (Canada) Tél. (450) 966-9000
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC Number 24 hours 613-996-6666

### Section 2. Hazard Identification

<b>Classification of hazardous product (name of the category or subcategory of the hazard class)</b>
Flammable liquid (Category 2) Skin corrosion/irritation (Category 2) Skin sensitization (Category 1) Serious eye damage/irritation (Category 2A) Acute toxicity, Oral and inhalation (Category 4) Sensitisation Respiratory (Category 1) Specific target organ toxicity, single exposure; Respiratory tract irritation (STOT, SE) (Category 3) Specific target organ toxicity, single exposure; Narcotic effects (STOT, SE) (Category 3) Hazardous to the aquatic environment, acute hazard (Category 3) Hazardous to the aquatic environment, long-term hazard (Category 3)

<b>Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)</b>
<div></div> <p><b>Warning</b> H225 Highly flammable liquid and vapor H315 Causes skin corrosion/irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation H302+H332 Harmful if swallowed and if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H402 Harmful to aquatic life H412 Harmful to aquatic life with long lasting effects</p> <p><b>Prevention</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment P241 Use explosion-proof (electrical/ventilating/lighting) equipment P242 Use non-sparkling tools P243 Take action to prevent static discharges. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear gloves/protective clothing/gloves/eye protection/face protection. P284 (In case of inadequate ventilation) wear respiratory protection.</p> <p><b>Response</b> IF SWALLOWED: P301 + P312 call a POISON CENTER P330 Rinse mouth IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. IF ON SKIN (OR HAIR): P303+P361+P353 Take off immediately all contaminated clothing. Rinse skin with water (or shower). IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 Call a doctor if you feel unwell. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. ENVIRONMENT P391: Collect spillage. IN CASE OF FIRE: P370 + P378 Use manufacturer/supplier or the competent authority to specify appropriate media</p> <p><b>Storage</b> P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P235 Keep cool. P405 Stored locked up.</p> <p><b>Disposal</b> P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.</p> <p><b>Other hazards known</b>   None</p>





Section 3. Composition/Information on Ingredients		
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
1,6 -Hexamethylene Diisocyanate Based Polyisocyanate	28182-81-2	< 80 %
Aliphatic diisocyanate	822-06-0	< 0,5 %
Parachlorobenzotrifluoride, 1-Chloro-4-(trifluoromethyl) benzene	98-56-6	< 40 %
Acétate de butyle tertiaire	540-88-5	< 15 %
*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).		
Section 4. First-Aid Measures		
Inhalation	IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. If symptoms persist, seek medical attention.	
Ingestion	IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.	
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 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)		Highly flammable liquid and vapor. Causes skin corrosion/irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if swallowed and if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
Indication of immediate medical attention/special treatment		In all cases, call a doctor. Do not forget this document.
Section 5. Fire-Fighting Measures		
Specific hazards of the hazardous product (hazardous combustion products)		
Toxic fumes.		
Suitable and unsuitable extinguishing media		
In case of fire: Use Limestone powder, carbon dioxide (CO <sub>2</sub> ), dry chemical.		
Special protective equipment and precautions for fire-fighters		
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required.		
Section 6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures		
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. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Work with non-sparking tools. 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. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.		
Section 7. Handling and Storage		
Precautions for safe handling		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Keep container tightly closed. Ground and bond container and receiving equipment Use explosion-proof (electrical/ventilating/lighting) equipment Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection. (In case of inadequate ventilation) wear respiratory 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 CAS 28182-81-2: 0.5 mg/m3; CAS 822-06-0: 0.02 mg/m3; CAS 540-88-5: 50 ppm; 150 ppm STEL.		
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**

<b>Appearance, physical state/colour</b>	Liquid	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Faint naphthalene odor	<b>Vapour density</b>	Not available
<b>Odour threshold</b>	Not available	<b>Relative density</b>	Not available
<b>pH</b>	Not available	<b>Solubility</b>	Reacts
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	Not available	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	Approx 4°C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	Not available
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	Not available	<b>Other</b>	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. Contact with moisture may cause polymerization.

**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.

**Hazardous decomposition products**

Carbon dioxide, isocyanate, carbamate, cyanic acid, cyanogen, nitrile, toxic cyanate, hydrogen cyanide, carbon mono.

**Section 11. Toxicological Information****Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)**

Causes skin corrosion/irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if swallowed and if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

**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.

**Numerical measures of toxicity (ATE; LD<sub>50</sub> & LC<sub>50</sub>)**

CAS 28182-81-2: Acute toxicity oral LD<sub>50</sub>-rat: > 5000 mg/kg; Acute Toxicity Oral/dermal: LD<sub>50</sub>-rabbit: >5.000mg/kg; Acute Toxicity Inhalation: LD<sub>50</sub>-rat: 20.8 mg/m 3h/ LC<sub>50</sub>-rat: 390 - 453 mg/m 4h; CAS 540-88-5: Acute toxicity oral LD<sub>50</sub>-rat: > 4100 mg/kg; Acute toxicity dermal LD<sub>50</sub>-rabbit: > 2000 mg/kg; Acute Toxicity Inhalation: LD<sub>50</sub>-rat: > 13300 mg/m<sup>3</sup> 4h; ATE not available in this document.

**Section 12. Ecological Information****Ecotoxicity (aquatic and terrestrial information)**

**Acute and Prolonged Toxicity to Fish:** CAS 28182-81-2: LC<sub>50</sub>: > 100 mg/L (Zebra fish (Brachydanio rerio) 96h) ; CAS 98-56-6: LC<sub>50</sub>: 11.5 – 15.8 mg/l (Lepomis macrochirus) 48h; CAS 540-88-5: LC<sub>50</sub>: 296 – 362 mg/l (Pimephales promelas) 96h.

**Acute Toxicity to Aquatic Invertebrates:** CAS 28182-81-2 EC<sub>50</sub>: > 100 mg/L (Water flea (Daphnia magna) 48 h);

**Toxicity to Aquatic Plants:** CAS 28182-81-2 EC<sub>50</sub>: > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h);

**Toxicity to Microorganisms:** CAS 28182-81-2 EC<sub>50</sub>: > 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. 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		
UN1866; RESIN SOLUTION; Class 3;PG II		
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)		
UN1866; RESIN SOLUTION; Class 3;PG II		
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)		
UN1866; RESIN SOLUTION; Class 3; PG II		
Special precautions (transport/conveyance)	May also be shipped as a LIMITED QUANTITY in accordance with TDG	
Environmental hazards (IMDG or other)	None	
Bulk transport (usually more than 450 L in capacity)	Possible	
Section 15. Regulatory Information		
Safety/health 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	
Safety/health/environmental outside regulations specifics		
United States OSHA information: This product is regulated according to OSHA (29 CFR).		
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	May 05, 2021 - version 03	
Corrections	Sections 2, 3, 5, 7, 11 (January 07-2019) V-02 Sections 9, 14(May 05-2021) V-03	
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	
DISCLAIMER: Labsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product 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.		