

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **DEGADUR® 165**  
 Product Use: Binder for floor-coating Roller application or brushing Hand-mixing with intimate contact and only PPE available Wide dispersive indoor use resulting in inclusion into or onto a matrix Wide dispersive outdoor use resulting in inclusion into or onto a matrix.

Restriction of Use in NZ: Refer to Section 15

Company Name: **Degafloor NZ**  
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**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 15 September 2020

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

**EPA Approval No: Surface Coatings and Colourants (Flammable) – HSR002662**

#### Pictograms



Flammable   Irritant   Chronic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Flam. Liq. 2
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1E (Resp)	H335	May cause respiratory irritation.	STOT SE 3
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.9B	H373	May cause damage to organs (kidneys) through prolonged or repeated exposure.	STOT RE 2
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3

Prevention Code	Prevention Statement
P102	Keep out of reach of children.

P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands 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 protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P370 + P378	In case of fire: Use foam, dry chemical and carbon dioxide for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Methyl methacrylate	>=50 - <70%	80-62-6
1,4-butanediol dimethacrylate	>=1.0 - <10%	2082-81-7
dibutyl maleate	>=1.0 - <10%	105-76-0
N,N-bis-(2-hydroxypropyl)-p- toluidine	>=1.0 - <10%	38668-48-3
(2-hydroxy-4- methoxyphenyl)phenyl-methanone	>=1.0 - <10%	131-57-7

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes                      Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.

If on Skin                        Take off contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.

If Swallowed Rinse mouth. Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

**Ingestion:** Harmful if swallowed.

**Inhalation:** May cause respiratory irritation.

**Skin:** Causes skin irritation and may cause an allergic skin reaction.

**Eye:** Not applicable.

**Chronic:** May cause damage to organs (kidneys) through repeated or prolonged exposure.

**Treatment:** If ingested, irrigate the stomach. If the product has been swallowed or vomited danger of penetration into the lung (danger of aspiration).

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Flammable Liquid
<b>Hazards from products</b>	May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. Closed container may rupture if strongly heated. Vapours may form explosive mixtures with air. Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible.
<b>Suitable Extinguishing media</b>	Foam, dry chemical and carbon dioxide Unsuitable: High volume water jet
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained breathing apparatus. Keep away from sources of ignition - No smoking. Vapors are heavier than air. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. Firefighting must be carried out from a safe distance. Use explosion-proof equipment. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>General Fire Hazards</b>	Keep emptied containers away from sources of heat and ignition. Keep out unprotected persons. In case of fire, remove the endangered barrels and bring to a safe place, if this can be done safely. Containers exposed to heat (fire) may build up pressure. Cool by splashing with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>HAZCHEM CODE</b>	<b>3YE</b>

**Section 6. Accidental Release Measures**

**Personal precautions:**

Use protective clothing as detailed in Section 8. Assure sufficient ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Keep

away from open flames, hot surfaces and sources of ignition. Vapours can form explosive mixtures with air. Keep out unprotected persons. Avoid spark generation.

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

**Spill and Disposal procedures:**

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment!

Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust).

Dispose of in accordance with local regulations detailed in Section 13.

<b>Section 7. Handling and Storage</b>
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**Precautions for Handling:**

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Open drum carefully as content may be under pressure.
- Avoid breathing fumes, vapours or spray.
- Provide sufficient ventilation and exhaust at the workplace.
- Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour).
- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.
- Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
- Training for staff on good practice. Recording of any 'near miss' situations.
- Regular cleaning of equipment and work area.
- Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Control staff entry to working area.
- Wash hands thoroughly after handling.
- Safety shower and eye wash fountain should be available.
- 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 protective clothing as detailed in Section 8.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up.
- Store in a well-ventilated place and keep cool.
- Keep container tightly closed.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from heat.
- Protect from the action of light or direct sunlight.
- Keep containers tightly closed.
- Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation.
- With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.
- Keep only in the original container at a temperature not exceeding 25 °C.

**Section 8****Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Methyl methacrylate (skin) [80-62-6]	50	208	100	416

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11<sup>TH</sup> EDITION.

**Engineering Controls**

Provide sufficient ventilation and exhaust at the workplace.

**Personal Protection Equipment**

<b>Eyes</b>	Tightly fitting safety goggles
<b>Hands</b>	Material: butyl rubber gloves Break-through time: 60 min Guideline: EN 374 Additional Information: Gloves should be replaced regularly, especially after extended contact with the product., For each work-place a suitable glove type has to be selected.
<b>Skin</b>	For handling larger quantities: Wear chemical-resistant boots and an apron.
<b>Respiratory</b>	Breathing apparatus in case of high concentrations if the limit values like TLV are exceeded, when vapours or aerosols occur Respirator with filter for organic vapour.
<b>General</b>	Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

**Section 9****Physical and Chemical Properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	bluish, slightly turbid
<b>Odour</b>	ester-like
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	100 °C (1.013 hPa) (methyl methacrylate)
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	< 15 °C (Paraffin Separation)
<b>Flash Point</b>	10 °C (methyl methacrylate)
<b>Flammability</b>	Flammable
<b>Upper and Lower Explosive Limits</b>	12,5 %(V) (methyl methacrylate) 2,1 %(V) (methyl methacrylate)
<b>Vapour Pressure</b>	approx. 40 hPa (20 °C)
<b>Vapour Density (air=1)</b>	>120°C
<b>Density</b>	1.00 g/cm <sup>3</sup> (20 °C)
<b>Water Solubility</b>	approx. 20 g/l (20 °C) soluble in ethyl acetate
<b>Partition Coefficient:</b>	Not available

<b>Auto-ignition Temperature</b>	Not available
<b>Minimum ignition temperature:</b>	430 °C (DIN 51794) (methyl methacrylate)
<b>Decomposition Temperature</b>	No decomposition if used as directed.
<b>Dynamic Viscosity</b>	50 - 90 mPa.s (23 °C, DIN 53018)
<b>Kinematic Viscosity:</b>	Not available
<b>Dust Explosion Limit, Lower:</b>	at 10,5°C (methyl methacrylate)

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable in normal conditions.
<b>Possibility of hazardous reactions</b>	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.
<b>Conditions to Avoid</b>	Heat and ignition sources, aging, contamination, oxygen free atmosphere.
<b>Incompatible Materials</b>	Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents.
<b>Hazardous Decomposition Products</b>	None when used as directed.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed. LD50: 1316 mg/kg
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye</b>	Not applicable.
<b>Skin</b>	Causes skin irritation and may cause an allergic skin reaction.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

### Individual component information:

#### Acute Toxicity:

<b>Chemical Name</b>	<b>Oral – LD50</b>	<b>Dermal – LD50</b>	<b>Inhalation – LC50</b>
Methyl methacrylate (80-62-6)	2000ppm (rat) EPA CCID=4700mg/kg (dog)	>5000mg/kg (rabbit)	Rat (Vapour) : 25 ppm EPA-CCID = 29mg/l (rat)
1,4-butanediol dimethacrylate (2082-81-7)	300 mg/kg (rat)	-	-
dibutyl maleate (105-76-0)	-	>2000mg/kg (rat)	-

## Section 12. Ecotoxicological Information

HSNO Classes: 9.1C = Harmful to aquatic life with long lasting effects.

<b>Persistence and degradability</b>	The product is biodegradable. (monomer constituent)
<b>Bioaccumulation</b>	No evidence for hazardous properties
<b>Mobility in Soil</b>	No specific test data available
<b>Other adverse effects</b>	Prevent substance from entering soil, natural bodies of water and sewer systems.

### **Individual component information:**

#### **Methyl methacrylate (80-62-6)**

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Oncorhynchus mykiss (rainbow trout)	96 hr	>79 mg/L
Chronic, aquatic, fish	Danio rerio (zebra fish)	14 d	9.4 mg/l
Acute aquatic, Crustacean	Daphnia magna (Water flea)	48 hr	69 mg/L
Chronic aquatic, Crustacean	Daphnia magna (Water flea)	21 d	37 mg/l
Acute aquatic, Algal	Selenastrum capricornutum (green algae)	72 hr	EC50 = >100mg/l NOEC = >110mg/l

#### **1,4-butanediol dimethacrylate (2082-81-7)**

Route	Species	Duration	Value LC50/EC50
Acute, aquatic, fish	Leuciscus idus melanotus	48 hr	32.5 mg/L
Chronic aquatic, Crustacean	Daphnia magna	21 d	7.51 mg/l
Acute aquatic, Algal	Desmodesmus subspicatus (green algae)	72 hr	9.79 mg/L

#### **N,N-bis-(2-hydroxypropyl)-p-toluidine (38668-48-3)**

Route	Species	Duration	Value LC50/EC50
Acute, aquatic, fish	Danio rerio (zebra fish)	96 hr	17 mg/L
aquatic, Crustacean	Daphnia magna (Water flea)	48 hr	28.8 mg/L
Acute aquatic, Algal	Desmodesmus subspicatus (green algae)	72 hr	245 mg/L

#### **(2-hydroxy-4- methoxyphenyl)phenyl-methanone (131-57-7)**

Route	Species	Duration	Value LC50/EC50
aquatic, fish	Leuciscus idus (Golden orfe)	96 hr	100-220 mg/l The reported toxic effects relate to the nominal concentration.
aquatic, Crustacean	Daphnia magna (Water flea)	24 hr	12.9 mg/l
Acute aquatic, Algal	Desmodesmus subspicatus (green algae)	72 hr	1.4 mg/l
	Pseudokirchneriella subcapitata (green algae)	72 hr	0.41 mg/l
	Pseudokirchneriella subcapitata (green algae)	72 hr	NOEC 0.08 mg/l

#### **dibutyl maleate (105-76-0)**

Route	Species	Duration	Value LC50/EC50
aquatic, fish	Oncorhynchus mykiss (rainbow trout)	96 hr	0.6 mg/l
aquatic, Crustacean	Daphnia magna (Water flea)	48 hr	21 mg/l
Acute aquatic, Algal	Desmodesmus subspicatus (green algae)	72 hr	6.2 mg/l

## Section 13. Disposal Considerations

### Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Flammable, Ecotoxic" and that the label also has the Flammable, Ecotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

### Contaminated Packaging:

Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

**Precautions or methods to avoid:** Avoid release to the environment.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



### Road, Rail, Sea and Air Transport

<b>UN No</b>	1866
<b>Class - Primary</b>	3
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	RESIN SOLUTION (STABILIZED)
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

## Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

HSNO Classification: 3.1B, 6.1D(Oral), 6.1E( Resp), 6.3A, 6.5B, 6.9B, 9.1C

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	100L (>5L), 250L (<5L), 50L open (3.1B)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (3.1B)
Fire Extinguisher Quantities	250L – 2x required
Emergency Response Plan	1000L (3.1B)
Secondary Containment	1000L (3.1B)
Restriction of Use	Only use for the intended purpose.

## Section 16 Other Information



## Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

## Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Degafloor NZ, if further information is required.

Issue Date: 15 September 2020                      Review Date: 15 September 2025