

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **DEGADUR® 530**

Product Use: Auxiliary agent for road markings and floor coatings

Restriction of Use in NZ: Refer to Section 15

Company Name: **Degafloor NZ**Address: 6 Sheffield Street
Levin, 5510

Telephone: +64 6 367 9799
E-mail: orders@degafloor.nz

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 Ecotoxic

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Flam. Liq. 2
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
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
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Acute 2 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.

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P243	Take precautionary measures against static discharge.
P261	Avoid breathing fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
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.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	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	20 - 50%	80-62-6
2-ethylhexyl acrylate	25 - 50%	103-11-7
1,4-butanediol dimethacrylate	1 - <10%	2082-81-7
N,N-bis-(2-hydroxypropyl)-p- toluidine	0,1 - <1%	38668-48-3
2-(2H-benzotriazol-2-yl)-p- cresol	0,1 - <1%	2440-22-4
Triphenylphosphine	0,1 - <1%	603-35-0

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 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

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Symptoms: Excessive or prolonged exposure can cause the following: Headache.,

confusion

Ingestion: May be harmful if swallowed. **Inhalation:** May cause respiratory irritation.

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

Eye: Not applicable.

Treatment: Symptomatic treatment.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Liquid	
Hazards from	May be released in case of fire: carbon monoxide, carbon dioxide,	
products	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.	
Suitable	Foam, dry chemical and carbon dioxide	
Extinguishing	Unsuitable: High volume water jet	
media		
Precautions for	Wear self-contained breathing apparatus. Keep away from sources of	
firefighters and	ignition - No smoking. Vapors are heavier than air. Vapors can travel to	
special protective	a source of ignition and flash back. Explosive mixtures may occur at	
clothing	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.	
General Fire	Remove sources of ignition. Also keep emptied containers away from	
Hazards	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.	
HAZCHEM CODE	3YE	

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.

Section 7. Handling and Storage

Precautions for Handling:

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- · 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.
- 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 inhalation, ingestion and contact with skin and eyes.
- Persons with a history of 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.
- · 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.
- 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.
- Max. storage temperature: 35 °C
- Keep away and protect from direct sunlight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m³	STEL ppm mg/m³
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 11TH EDITION.

Engineering Controls

Provide sufficient ventilation and exhaust at the workplace.

Personal Protection Equipment



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Eyes	For handling larger quantities: Wear a face mask		
Hands	Material: butyl rubber gloves		
	Break-through time: 66 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.		
Skin	For handling larger quantities: Wear chemical-resistant boots and an apron.		
Respiratory	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		
General	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**

Appearance	Liquid	
Colour	bluish, slightly turbid	
Odour	ester-like	
Odour Threshold	Not available	
pH	Not available	
Boiling Point	100 °C (1.013 hPa) (methyl methacrylate)	
Melting Point	Not available	
Freezing Point	< -30 °C	
Flash Point	10 °C (methyl methacrylate)	
Flammability	Not available	
Upper and Lower	12,5 %(V) (methyl methacrylate)	
Explosive Limits	2,1 %(V) (methyl methacrylate)	
Vapour Pressure	approx. 40 hPa (20 °C)	
Vapour Density	Not available	
Density	0,97 g/cm3 (20 °C)	
Water Solubility	Not available	
Partition Coefficient:	Not available	
Auto-ignition	not pyrophoric	
Temperature		
Minimum ignition	430 °C (DIN 51794) (methyl methacrylate)	
temperature:		
Decomposition	Not available	
Temperature		
Dynamic Viscosity	approx. 100 mPa.s (23 °C)	

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous reactions	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. Vigorous polymerization is possible when heated /exposed to heat.	
Conditions to Avoid	Avoid high temperatures and sources of ignition. Ultraviolet light. The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.	
Incompatible Materials	Reducing agents. Tertiary amines. Heavy metals. Peroxides. Free radical initiators. Oxidizing agents. Mineral Acid	
Hazardous Decomposition Products	None when used as directed.	

Toxicological Information Section 11

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Acute Effects:

Swallowed	May be harmful if swallowed. May cause headaches and dizziness.	
	ATEmix: 2.226,63 mg/kg	
Dermal	Not applicable. ATEmix: > 5.000 mg/kg	
Inhalation	Not harmful if inhaled. ATEmix: 67,51 mg/l	
	Dusts, mists and fumes.	
	May cause respiratory irritation.	
Eye	Not applicable.	
Skin	Causes skin irritation and may cause an allergic skin reaction.	

Chronic Effects:

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

Individual component information:

Acute Toxicity:

Acute Toxicity.	-	-	
Chemical Name	Oral - LD50	Dermal - LD50	Inhalation - LC50
Methyl methacrylate	2000ppm (rat)	-	Rat (Vapour) :
(80-62-6)	EPA		25 ppm
	CCID=4700mg/kg		EPA-CCID = 29mg/l
	(dog)		(rat)
2-ethylhexyl acrylate	EPA CCID:	-	-
(103-11-7)	4400mg/kg		
	(mouse)		
1,4-butanediol	300 mg/kg (rat)	-	-
dimethacrylate			
(2082-81-7)			
2-(2H-benzotriazol-2-yl)-	47 mg/kg(Rat)	-	-
p-cresol (2440-22-4)	(Target Organ(s):		
	Liver) Repeated		
	high-level		
	exposure may		
	cause liver		
	damage.		
Triphenylphosphine	700 mg/kg (Rat)	-	-
(603-35-0)	EPA CCID		

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

Persistence and degradability The product is biodegradable. (monomer constituent)	
Bioaccumulation No evidence for hazardous properties	
Mobility in Soil No specific test data available	
Other adverse effects Prevent substance from entering soil, natural	
	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

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Acute aquatic, Crustacean	Daphnia magna (Water flea)	48 hr	69 mg/L
Chronic aquatic,	Daphnia magna (Water flea)	21 d	37 mg/l
Crustacean	Dapinia magna (water nea)	21 U	
Acute aquatic, Algal	Selenastrum capricornutum (green	72 hr	EC50 = >100mg/l NOEC =
	algae)	1.2	>110mg/l

2-ethylhexyl acrylate (103-11-7)

Route	Species	Duration	Value LC50/EC50
Acute, aquatic, fish	Salmo gairdneri,	96 hr	4.6 mg/L
Acute, aquatic, fish	(Oncorhynchus mykiss (rainbow trout)	90 111	1.81 mg/l
Chronic, aquatic, fish	Salmo salar (Atlantic salmon)	21 d	0.78 mg/l
Acute, aquatic, Crustacean	Daphnia magna (Water flea)	48 hr	8.74 mg/L
	Daphnia magna	40 111	17.45 mg/L
Chronic aquatic,	Daphnia magna (Water flea)	21 d	NOEC = 0.19mg/l
Crustacean	Daprillia magna (water nea)	21 u	EC50 = 0.5 mg/l
Acute aquatic, Algal	Desmodesmus subspicatus (green	72hr	14.6 mg/L
	algae)	7 2111	1.71 mg/l
	Pseudokirchneriella subcapitata (green	72 hr	3.55 mg/l
	algae)	72111	
	Desmodesmus subspicatus	72 hr	5.28 mg/l

1.4-butanediol dimethacrylate (2082-81-7)

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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)

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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-(2H-benzotriazol-2-yl)- p-cresol (2440-22-4)

Route	Species	Duration	Value LC50/EC50 NOEC
Acute, aquatic, fish	Oncorhynchus mykiss (rainbow trout) The reported toxic effects relate to the nominal concentration. In the range of water solubility not toxic under test conditions.	96 hr	>0.17 mg/L
Acute aquatic, Crustacean	Daphnia magna (Water flea) The reported toxic effects relate to the nominal concentration. No toxicity at the limit of solubility	24 hrs	>1.000 mg/l
Chronic aquatic, Crustacean	Daphnia magna (Water flea)	21 d	0.013mg/l
Acute aquatic, Algal	Green Algae Pseudokirchneriella subcapitata (green algae),	72 hr	>100 mg/l >0.0822 mg/l

Triphenylphosphine (603-35-0)

Route	Species	Duration	Value LC50/EC50
aquatic, fish	Leuciscus idus (Golden orfe)	96 hr	>10.000 mg/l
aquatic, Crustacean	Daphnia magna (Water flea) No toxicity at the limit of solubility literature	48 hr	>5 mg/l
Acute aquatic, Algal	Desmodesmus subspicatus (green algae)	72 hr	>5 mg/l

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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

UN No	1866
Class - Primary	3
Packing Group	II
Proper Shipping Name	RESIN SOLUTION (STABILIZED)
Marine Pollutant	Yes
Special Provisions	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, 6.1E(Oral, Resp), 6.3A, 6.5B, 9.1B

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
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, 9.1B)
Secondary Containment	1000L (3.1B, 9.1B)
Restriction of Use	Only use for the intended purpose.

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Section	16	Other Information
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Glossary

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ 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

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