SAFETY DATA SHEET

1. Product and Company Identification

1.1 PRODUCT NAME: DURACON TINTER

1.2 USE OF PRODUCT Colour Compound for Duracon Flooring System.

1.3 SUPPLIER:

Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
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Email: admin@equus.co.nz

1.5 EMERGENCY CONTACT:

National Poison Centre
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 5780214 8:00am – 6:00pm Mon – Fri

1.6 DATE OF PREPARATION: 14 July 2020

2. Hazards Identification

2.1 Classification:
HSNO Status: Classified as hazardous according to New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2017

2.2 DG Status:
Classified as Dangerous Good under NZS 5433:2012 Transport of Goods on Land

2.3 Hazard Classification:

GHS		HSNO EQUIVALENT	HAZARD STATEMENTS
Flammable Liquids	Cat 2	3.1B	Highly flammable liquid and vapour
Skin Corrosion/Irritation	Cat 2	6.3A	Causes Skin irritation
Skin Sensitisation	Cat 1	6.5B	May cause an allergic skin reaction
STOT – SE	Cat 3	6.9 (respiratory tract irritant)	May cause respiratory irritation
Aquatic Toxicity (Chronic)	Cat 3	9.1C	Harmful to aquatic life with long lasting effects

2.4 GHS Pictogram:

Signal Word: Danger

2.5 Prevention Statements:

P210	Keep away from heat/sparks/open flames/hot surfaces* No smoking
P233	Keep container tightly closed
P241	Use explosion-proof electrical/ventilating/lighting/ventilation equipment
P242	Use only non-sparking tools

P243	Take precautionary measures against static discharge
P280	Wear protective gloves/protective clothing/eye protection/face protection*
P264	Wash hands thoroughly after handling
P261	Avoid breathing fumes /vapours
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment

2.6 Response Statements:

P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P332 + P313	If skin irritation occurs: Get medical advice/ attention
P362	Take off contaminated clothing and wash before re-use
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention
P363	Wash contaminated clothing before reuse
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

2.7 Storage Statements:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P403 + P235	Store in a well-ventilated place. Keep cool

3. Composition/Information on Ingredients

3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION (%WEIGHT)
80-62-6	Methyl methacrylate	12.5 - 25
103-11-7	2- Ethylhexyl acrylate	12.5 – 25
109-16-0	Triethylenglycol Dimethacrylate	0.5 -1.25
-	Non-hazardous ingredients	Balance

4. First Aid Measures

4.1 General advice:
Move out of dangerous area. Take off all contaminated clothing immediately.

4.2 Inhalation:
Move to fresh air. Keep respiratory tract clear. If unconscious place in recovery position and seek medical advice. If not breathing, give artificial respiration. Call physician if irritation develops or persists.

4.3 Eye Contact:
Remove contact lenses if present and easy to do. Rinse eyes immediately with plenty on water, also under the eyelids, for at least 15 minutes. Consult physician.

4.4 Skin Contact:
Remove all contaminated clothing and shoes. Wash off skin immediately with soap and plenty of water. Call physician if irritation develops or persists.

4.5 Ingestion:
Rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Get medical attention immediately.

4.6 Most important symptoms and effects, both acute and delayed
Main symptoms No information available

4.7 Indication of any immediate medical attention and special treatment needed
Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Suitable extinguishing media:
Water mist, carbon dioxide (CO2), dry powder, foam.

5.2 Extinguishing media which shall not be used for safety reasons:
High volume water jet.

5.3 Specific hazards:
Hazardous decomposition products formed during combustion. Flash back possible over considerable distance. Explosive reaction may occur on heating or burning. Burning produces irritant fumes.

5.4 Advice for Firefighters

5.4.1 Protective equipment and precautions for firefighters:
In the event of a fire, wear self-contained breathing apparatus. Use personal protective equipment.

5.4.2 Further information:
Keep containers and surroundings cool with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Prevent contaminated extinguishing water from entering drains, sewers and waterways.

5.5 Additional information:
Flashpoint (MMA) 12°C. Hazchem 3YE

6. Accidental Release Measures:

6.1 Personal precautions:
Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin eyes and clothing.

6.2 Environmental precautions:
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains and sewers. Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and for cleaning up:
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Transfer to a container for disposal according to local/ national regulations (see section 13). Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment.

7. Handling and Storage

7.1 <u>Safe Handling:</u>

7.1.1 Technical Measures/Precautions:
Use only in well ventilated areas. Vapours may form explosive mixtures with the air. Keep product and empty container away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge. Do not use sparking tools. Use only explosion-proof equipment. Have fire extinguishers ready before opening drum.

7.1.2 Safe handling advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Provide exhaust ventilation close to floor level. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Open drum carefully as content may be under pressure.

7.2 <u>Safe Storage:</u>

7.2.1 Technical measures/ Storage conditions:
Store in original containers. Never fill containers more than 80% because aerial oxygen is necessary for stabilising. Store between 5 and 25°C in a dry, well ventilated place away from

sources of heat, ignition and direct sunlight. Keep in an area equipped with solvent resistant flooring. Do not store together with oxidizing and self-igniting products.

8. Exposure Controls and Personal Protection Equipment

8.1 Occupational exposure controls:

8.1.1 Engineering measures:
Ensure adequate ventilation, especially in confined areas.

8.1.2 Exposures limits:

Chemical name	CAS No	Regulation	Limit
Methyl Methacrylate	80-62-6	WES/TWA WES/STEL	50ppm 208mg/m^3 100ppm 416mg/m^3

8.2 Personal protective equipment:

8.2.1 Respiratory protection:
Respirator with filter for organic vapour. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Preferably a compressed airline breathing apparatus.

8.2.2 Hand protection:
Solvent-resistant gloves. Suitable material: Butyl rubber. Take note of the information given by the producer concerning permeability, break through times, and of special workplace conditions (Mechanical strain, duration of contact.) Follow the skin protection plan.

8.2.3 Eye protection:
Tightly fitting safety googles. Eye wash bottle with pure water.

8.2.4 Skin protection:
Follow the skin protection plan. Flame retardant, antistatic protective clothing. Remove and wash contaminated clothing before re-use.

8.2.5 Hygiene measures:
Handle in accordance with good industrial hygiene and safety practices for chemicals. When using, do not eat, drink or smoke. Keep away from food, drink and animal foodstuffs. Keep working clothes separate.

8.2.6 Environmental exposure controls:
Prevent product from entering drains, sewers and waterways. Do not allow material to contaminate ground water system.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Viscous Liquid
Appearance	No information available
Colour	Various Colours
Odour	Acrylic-like
Odour Threshold	0.05 ppm

9.1.1

Property	Values	Remarks, Methods
pH	Not Applicable	
Melting/freezing point	-48°C (MMA)	
Boiling point/boiling range	101°C (MMA)	
Flash point	12°C (MMA)	
Evaporation rate	No data available	No information available
Flammability (solid,gas)		No information available
Flammability Limits in Air		

Upper flammability		No information available
Lower flammability		No information available
Upper explosion limit	12.5 Vol.% (MMA)	
Lower explosion limit	2.1 Vol.% (MMA)	
Vapour pressure	38.7 mbar (MMA)	(Air = 1.0)
Vapour density		
Water Solubility	insoluble	
Solubility in other solvents		No information available
Partition coefficient:	1.38 log POW (MMA)	
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic	2000 – 20,000 mPa.s (25 °C)	
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidising properties		No information available

9.2 **Other information:**

Volatile organic compounds (VOC)	Not Applicable
Density	1.4 – 1.8 g/cm³ (25 °C)

10. Stability and Reaction

10.1 Reactivity:
Stable under normal conditions

10.2 Chemical Stability:
Stable under recommended storage conditions.

10.3 Conditions to avoid:
Heat, flames and sparks. Exposure to sunlight.

10.4 Materials to avoid:
Avoid radical forming starting agents, peroxides and reactive metals. Amines, Heavy metal compounds, oxidizing agents, Reducing agents.

10.5 Hazardous decomposition products:
No hazardous decomposition products are known.

10.6 Hazardous polymerization:
Polymerisation occurs when exposed to white light, ultraviolet light or heat. Polymerisation is a highly exothermic reaction and may generate heat to cause thermal decomposition and/ or rupture containers.

11. Toxicology Information

11.1 Acute toxicity:

Product Information

Inhalation	Irritating to respiratory system. Irritating to mucous membranes.
Eye contact	There is no data available for this product.
Skin contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	There is no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL METHACRYLATE	>5000 mg/kg (Rat)	<5000mg/kg (Rabbit)	29.8 mg/ℓ (Rat)
2-ETHYLHEXYL ACRYLATE	4435 mg/kg (Rat)	7522 mg/kg (Rabbit)	

11.2 Chronic toxicity

Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	No information available
Respiratory or skin sensitisation	May cause allergic kin reaction. May cause respiratory irritation

Target organs	Eyes, Respiratory system. Skin
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive Toxicity	No information available
Specific target organ toxicity-Single exposure	No information available
Specific target organ toxicity-Repeated exposure	No information available
Aspiration hazard	No information available

12. Ecological Information

12.1 Ecotoxicity

12.1.1 For Methyl Methacrylate.

Fish:

Pimephales promelas (Fathead Minnow)

LC50: 96h	243-275 mg/L	Flow-through
LC50: 96h	125.5–190.7 mg/L	Static

Lepomis macrochirus (Bluegill)

LC50: 96h	170-206 mg/L	Flow-through
LC50: 96h	153.9-341.8 mg/L	Static

Oncohynchus mykiss (Rainbow Trout)

LC50: 96h	79mg/L	Flow-through
LC50: 96h	79mg/L	Static

Poecilia reticulata (Guppy)

LC50: 96h	326.4-426.9 mg/L	Static

Algae:

Pseudokirchneriella subcapitata

EC50: 96h 170mg/L

Aquatic Invertibrates:

Daphnia magna (Water flea)

EC50: 48h 69mg/L

12.1.2 For Ethylhexyl Acrylate

Algae:

Desmodesmus Subspicatus

EC50: 72h 44mg/L

EC50: 96h 47mg/L

Aquatic Invertibrates:

Daphnia magna (Water flea)

EC50: 48h 17.45 g/L

12.2 Persistence and degradability:

Partially biodegradable.

12.3 Bioacummulative potential:

No data is available on the product itself

Methyl Methacrylate	log Pow	0.7
2-Ethylhexyl Acrylate	log Pow	4.64

12.4 Mobility in soil

No data is available in the product itself

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects
No information available

13. Disposal Consideration

13.1 Waste from residue / unused products:
Dispose of as hazardous waste in compliance with local and national regulations.

13.2 Contaminated packaging:
Empty containers should be taken to an approved waste handling site for recycling and disposal. Labels must not be removed from containers before they have been cleaned. Empty containers may contain hazardous/ flammable residues and therefore must not be cut, punctured or have welding done on or near the containers. Containers should be cleaned by appropriate methods before re-use or disposal through metal recycling or into landfill.

14. Transport information

14.1 This material is regulated under NZS5433: 2007 for land transport.

UN number	1866
Proper shipping name	1866 Resin solution
Class	3
Packing group	II
Labels	3YE

15 Regulatory Information

15.1 HSNO approval:

Approval code:	HSR002662
HSNO Group standard	Surface Coatings and Colourants (Flammable) 2017

15.2 Hazard Category: Irritant, Highly Flammable, Sensitising.

16 Other Information

16.1 Hazard / classifications:

3.1B	Flammable liquid- high hazard.
6.3A	Substances that are irritating to the skin.
6.5B	Substances that are contact sensitisers.
6.9 (respiratory tract irritant)	Substances that are harmful to human target organs or systems.
9.1C	Substances that are harmful to the aquatic environment

16.2 Abbreviations/Terminology:

HSNO	Hazardous Substances and New Organisms Act.
CAS	Chemical Abstract Service.
LC50	Lethal concentration- concentration required to produce the specified effect in 50% of the sample studied.
EC50	Half maximal effective concentration
WES	Workplace Exposure Standard (Worksafe NZ)
TWA	Time Weighted Average Exposure Level designed to protect from the effects of long- term exposure.
STEL	Short-term Exposure Level (15 minutes).
VOC	Volatile Organic Compound.
log Pow	Octanol water partition co-efficient
PBT	Persistent bioaccumulative and toxic
vPvT	Very persistent and very bioaccumulative

16.3 Issue information:

Date of preparation: 14 July 2020
Reasons: Update and format change
Replaces: 30 April 2014

16.4 The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It cannot be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.