



## SAFETY DATA SHEET

SDS 467

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### 1. Product and Company Identification

- 1.1 PRODUCT NAME:** Duracon 225
- 1.2 USE OF PRODUCT** Binder for Duracon Flooring systems
- 1.3 SUPPLIER:** Equus Industries Ltd  
Sheffield Street  
Riverlands Industrial Estate  
Blenheim, Marlborough, New Zealand  
Telephone: +64 3 578 0214  
Fax: +64 3 5780919
- 1.4 PRODUCER:** Alteco Technik GmbH  
Raiffeisenstraße 16  
D-27239 Twistringen, Germany  
Telephone: 0049 (0) 4243-92 95-0  
Fax: 0049 (0) 4243-3322  
Email: info@alteco-technik.de
- 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:** 9 September 2016

### 2. Hazards Identification

#### 2.1 Statement of Hazardous Nature

**2.2** Classified as hazardous according to New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**2.2** HSMO Group Standard: Additives, Process Chemicals and Raw Materials (Flammable).

**2.3** HSNO Classification  
3.1B, 6.1D, 6.3A, 6.4A, 6.5B, 6.9A, 9.1D

#### 2.4 Hazard Statements

- Highly Flammable liquid and vapour
- Causes skin irritation
- May cause an allergic skin reaction
- Causes eye irritation
- Harmful if inhaled
- Causes damage to organs through prolonged inhalation of fumes
- Harmful to aquatic life

#### 2.5 Prevention Statements

- Read label before use
- Read Safety Data Sheet before use
- Keep away from heat/sparks/open flames/hot surfaces- NO Smoking
- Keep container tightly closed
- Ground/ bond container and receiving equipment

- Use explosion proof electrical/ ventilating/ lighting equipment
- Use non-sparking tools
- Take precautionary measures against static discharge
- DO NOT- Breath dust/fumes/gas/mist/vapours/sprays
- Wash hands thoroughly after handling
- DO NOT- breath, drink or smoke when using this product
- Use only ou doors or in a well-ventilated area
- Contaminated work clothing should not be allowed out of the workplace
- Avoid release to the environment
- Wear protective gloves/ protective clothing/ eye protection/ face protection

### 3. Composition/Information on Ingredients

#### 3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	WEIGHT PERCENT
80-62-6	Methyl methacrylate	30-50
—	Other ingredients determined to be non-hazardous	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 is 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 (CO<sub>2</sub>), 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) = 11.5°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 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 Safe Handling:

#### 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 Safe Storage:

### 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 control/ Personal protection:

### 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 <sup>3</sup> 100ppm 416mg/m <sup>3</sup>

### 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 goggles. 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	Liquid
Colour	Violet
Odour	Acrylic-like
Odour Threshold	0.05 ppm

9.1.1 Property	Values	Remarks, Methods
pH	Not Applicable	
Boiling point/boiling range	100.3 °C (MMA)	
Flash point	11.5 °C (MMA)	
Explosion Limits		
Upper	12.5 Vol.% (MMA)	
Lower	2.1 Vol,% (MMA)	
Vapour pressure	38.7 mbar (MMA)	(Air = 1.0)
Vapour density	Not Applicable	
Relative density	Not Applicable	
Water Solubility	insoluble	
Partition coefficient: n-octanol/water	1.38 log POW (MMA)	
Viscosity, kinematic	70-90 mPa.s (25 °C)	
Explosive properties	Not Applicable	
Evaporation rate	Not Applicable	

### 9.2 Other information:

Volatile organic compounds (VOC) content	Not Applicable
Density	0.97 g/cm <sup>3</sup> (25 °C)
Bulk density	Not Applicable
Melting/freezing point	-48 °C (MMA)

## 10. Stability and Reactivity

### 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. Toxicological information

### 11.1 Acute toxicity:

#### Product Information

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

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL METHACRYLATE	7872 mg/kg (Rat)	<5000mg/kg (Rabbit)	4632 ppm (Rat)
2-ETHYLHEXYL ACRYLATE	4435 mg/kg (Rat)	7522 mg/kg (Rabbit)	

### 11.2 Chronic toxicity

<b>Skin corrosion/irritation</b>	Irritating to skin
<b>Serious eye damage/eye irritation</b>	No information available
<b>Sensitisation</b>	May cause sensitization by skin contact
<b>Target organ effects</b>	Eyes, Respiratory system. Skin.
<b>Germ cell mutagenicity</b>	No information available
<b>Reproductive Toxicity</b>	No information available
<b>Specific target organ toxicity-Single exposure</b>	No information available
<b>Specific target organ toxicity-Repeated exposure</b>	No information available
<b>Aspiration hazard</b>	No information available
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product

## 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
Oncorhynchus 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 Invertebrates:

Daphnia magna (Water flea)  
EC50: 48h 69mg/L

**12.2 Persistence and degradability:**

Partially biodegradable.

**12.3 Bioaccumulative potential:**

No data is available on the product itself

Methyl Methacrylate log Pow 0.7

**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 considerations**

**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 transports.

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:	HSR002495
HSNO Group standard	Additives, Process Chemicals and Raw Materials (Flammable).

##### 15.2 HSNO Controls:

Approved Handler present greater than	Required to be present to supervise handling of product if in quantities greater than 250 litres (when in containers 5 litres).
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15.3 Hazard Category: Irritant, Highly Flammable, Sensitising.

#### 16. Other information

##### 16.1 Hazard / classifications:

- 3.1B Flammable liquid- high hazard.
- 6.1D Substances that are acutely toxic- harmful.
- 6.3A Substances that are irritating to the skin.
- 6.4A Substances that are irritating to the eye.
- 6.5B Substances that are contact sensitisers.
- 6.9A Substances that are toxic to humans target organs or systems.
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action.

##### 16.2 Abbreviations/Terminology:

<b>HSNO</b>	Hazardous Substances and New Organisms Act.
<b>CAS</b>	Chemical Abstract Service.
<b>LC50</b>	Lethal concentration- concentration required to produce the specified effect in 50% of the sample studied.
<b>EC50</b>	Half maximal effective concentration
<b>WES</b>	Workplace Exposure Standard (NZ Ministry of Business, Innovation and Employment).



<b>TWA</b>	Time Weighted Average Exposure Level designed to protect from the effects of long- term exposure.
<b>STEL</b>	Short-term Exposure Level (15 minutes).
<b>VOC</b>	Volatile Organic Compound.
<b>log Pow</b>	Octanol water partition co-efficient
<b>PBT</b>	Persistent bioaccumulative and toxic
<b>vPvT</b>	Very persistent and very bioaccumulative

### 16.3 Issue information:

Date of preparation:	30 April 2014
Reasons:	Update and format change
Replaces:	15 July 2009

- 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.