

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : **TuffStuff 1284 Grey**  
 Product form : liquid  
 Other means of identification : none

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Primer for boat surfaces

**1.3. Details of the supplier of the safety data sheet**

Akzo Nobel Coatings Ltd.  
 686 Rosebank Road, Avondale, Auckland 7 New Zealand  
 (09) 828 3009

**1.4. Emergency telephone numbers**

**For Hazardous Materials [or Dangerous Goods] Incident spill, leaks, fire, Exposure, or Accident  
 Call CHEMTREC 24 hours 7 days per week**

Emergency number : **CHEMTREC Outside USA and Canada: +1 703-741-5970 (collect calls accepted)**

Emergency number : **CHEMTREC Within USA and Canada: 1-800-424-9300 CCN155**

Emergency number : **New Zealand Poisons Information Centre 0800 764 766 (24 hours)**

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

This substance is classified as hazardous according to criteria in the Hazardous Substances (Classifications) Notice.  
 EPA Group Standard: HSR002669 - Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020

**Classification (GHS)**

Flammable Liquid 3 H226  
 Skin Irritation 2 H315  
 Eye Irritation 2A H319  
 Skin Sensitisation 1 H317  
 Carcinogenicity 2 H351  
 STOT RE 2 H373  
 Aquatic Acute 2 H401  
 Aquatic Chronic 2 H411

**2.2. Label elements**

**GHS**

Hazard pictograms (GHS) :



Signal word (GHS) :

**Danger**

Hazard statements (GHS) :

H226 - Flammable liquid and vapor  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H351 - Suspected of causing cancer  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H401 - Toxic to aquatic life  
 H411 - Toxic to aquatic life with long lasting effects

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Precautionary statements (GHS) : P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting equipment  
P242 - Use only non-sparking tools P261 - Avoid breathing dust/fume/mist/vapors/spray  
P243 - Take precautionary measures against static discharge  
P260 - Do not breathe dust, fume, mist, spray, vapors  
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors  
P264 - Wash hands, forearms and face thoroughly after handling  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective gloves, protective clothing  
P302+P352 - If on skin: Wash with plenty of soap and water  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P314 - Get medical advice/attention if you feel unwell  
P321 - Specific treatment (see first aid instructions on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 + P364 - Take off contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use carbon dioxide, dry powder, alcohol resistant foam or sand to extinguish  
P391 - Collect spillage  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

### 2.3. Other hazards

None under normal conditions.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type: Multi-constituent

Name	Product identifier	% w/w
Bisphenol A diglycidyl ether - bisphenol A copolymer	(CAS No) 25036-25-3	15 - 40
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	15 - 40
Titanium dioxide	(CAS No) 13463-67-7	7 - 13
Trizinc diphosphate	(CAS No) 7779-90-0	7 - 13
Silane, dichlorodimethyl-, reaction products with silica	(CAS No) 68611-44-9	1 - 5
Phosphoric acid, barium salt (2:3)	(CAS No) 13517-08-3	1 - 5
Methyl isobutyl ketone	(CAS No) 108-10-1	1 - 5
Ethylbenzene	(CAS No) 100-41-4	0.1 - 1

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

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Skin contact:	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention..
Eye contact:	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
Ingestion:	: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.
First aid facilities:	: Eyewash and normal washroom facilities.
Medical attention and special treatment:	: Treat symptomatically

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Alcohol-resistant foam. Sand.
Hazchem code	: +3Y

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: No data available
Reactivity	: No dangerous reactions known under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see Section 8).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Wear approved supplied-air respirator, in case of emergency.
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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Scoop solid spill into closing containers or bags. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Exclude sources of ignition and ventilate the area. Waste from this product may be hazardous.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Containers of this material may be hazardous when emptied. Do not breathe mist, spray.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Keep container closed when not in use.

Storage temperature : < 27 °C (81F)

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No value assigned for this specific material by Worksafe NZ, however the following are the tolerable exposure limit (TEL) or exposure standards for the individual hazardous components as available and published by NZ Workplace Exposure Standard (WES) and/or as set by overseas occupational exposure limits:

<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
Worksafe NZ TWA	50 ppm
NZ Workplace Exposure Standards (New Zealand) WES	TWA 50 ppm (217 mg/m <sup>3</sup> ) Note: 'oto' - ototoxic
Workplace Exposure Limits (UK – HSE)	TWA 50 ppm (220 mg/m <sup>3</sup> ) STEL 100 ppm (441 mg/m <sup>3</sup> ) Note 'Sk' – can be absorbed through skin. Note 'BMGV' - 650 mmol methyl hippuric acid/mol creatinine in urine; Post shift
ACGIH TWA (ppm)	100 ppm
ACGIH STEL (ppm)	150 ppm
OSHA PEL (TWA) (ppm) (mg/m <sup>3</sup> )	100 ppm (435 mg/m <sup>3</sup> )
OSHA PEL (STEL) (ppm) (mg/m <sup>3</sup> )	150 ppm (655 mg/m <sup>3</sup> )
<b>Ethylbenzene (100-41-4)</b>	
NZ Workplace Exposure Standards (New Zealand) WES	TWA 20 ppm (88 mg/m <sup>3</sup> ) STEL 40 ppm (176 mg/m <sup>3</sup> ) Note: 'skin' – can be absorbed through skin, 'oto' - ototoxic
ACGIH TWA (ppm)	20 ppm
Remark (OSHA)	upper respiratory tract irritation; kidney damage (nephropathy); cochlear impairment
OSHA PEL (TWA) (ppm) (mg/m <sup>3</sup> )	100 ppm (435 mg/m <sup>3</sup> )
OSHA PEL (STEL) (ppm) (mg/m <sup>3</sup> )	125 ppm (545 mg/m <sup>3</sup> )
<b>Titanium dioxide (13463-67-7)</b>	
NZ Workplace Exposure Standards (New Zealand) WES	TWA 10 mg/m <sup>3</sup>
ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> total dust
<b>Methyl isobutyl ketone (108-10-1)</b>	
NZ Workplace Exposure Standards (New Zealand) WES	TWA 50 ppm (205 mg/m <sup>3</sup> ) STEL 75 ppm (307 mg/m <sup>3</sup> ) Note 'BEI' – 0.7mg/L MIBK in urine; End of shift
ACGIH TWA (ppm)	20 ppm
ACGIH STEL (ppm)	75 ppm
OSHA PEL (TWA) (ppm) (mg/m <sup>3</sup> )	100 ppm (410 mg/m <sup>3</sup> )

#### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment : Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Grey

Odour : No data available

pH : No data available

Melting point : No data available

Freezing point : No data available

Initial Boiling point : No data available

Boiling Range : No data available

Flash point : 27.22 °C (81F)

Flammability (solid, gas) : Not applicable

Upper/lower flammability or explosive limits : No data available

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : 1.34 g/cm<sup>3</sup>

Solubility : No data available

Partition coefficient: n-octanol/water : No data available

Auto ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, kinematic : No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Sparks. Heat. Open flame. Extremely high or low temperatures. Direct sunlight.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide .

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

No toxicological data is available for the formulation. The acute toxicity of the ingredients is presented below:

toxicological data is available for the formulation. The acute toxicity of the ingredients is presented below:

<b>Xylenes (o-, m-, p- isomers):</b>	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	>29.08 mg/kg
LC50 inhalation rat (mg/l)	29.08 mg/l/4h vapor
<b>Ethylbenzene:</b>	
LD50 oral rat	636 mg/kg
LD50 dermal rabbit	15400 mg/kg
LD50 inhalation dust/mist rat	17.2 mg/l/4h
<b>Toluene (108-88-3)</b>	
LD50 oral rat	636 mg/kg
LD50 dermal rat	12124 mg/kg
LD50 dermal rabbit	8390 mg/kg
LC50 inhalation rat (mg/l)	12.5 mg/l/4h
LC50 inhalation rat (ppm)	> 26700 ppm/1h
<b>Benzene (71-43-2):</b>	
LD50 oral rat	LD50 oral rat 1800 mg/kg
LC50 inhalation rat (ppm)	13050 ppm/4h
<b>Silica: Crystalline, quartz (14808-60-7)</b>	
LD50 oral rat	500 mg/kg
<b>Titanium dioxide (13463-67-7)</b>	
LD50 oral rat	> 10000 mg/kg (Source: IUCLID)
<b>Trizinc diphosphate (7779-90-0)</b>	
LD50 oral rat	> 5000 mg/kg
<b>Methyl isobutyl ketone (108-10-1)</b>	
LD50 oral rat	2080 mg/kg
LD50 dermal rabbit	3000 mg/kg
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

Acute toxicology - oral	Not classified.
Acute toxicology - dermal	Not classified.
Acute toxicology - inhalation	Not classified.
Skin corrosion/irritation	Causes skin irritation
Eye damage/irritation	: Causes serious eye irritation
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer
Reproductive toxicity	: Not classified.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	: Not classified
Chronic health effects	: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

No data available

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### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Other adverse effects

No data available

### 12.6. Environmental Exposure Limits (EEL):

Not applicable.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents to a waste handling facility for treatment, or by treating the substance. Dispose of container in accordance with local regulations.

Waste disposal recommendations : This product should not be disposed of into, or onto, a landfill facility, or via municipal sewers, drains, natural streams or rivers. Do not burn.

## SECTION 14: Transport information

### 14.1. Road and Rail Transport – New Zealand Transport Legislation (NZS5433)

UN number : 1263  
UN proper shipping name : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base)  
Hazard Classes : Class 3 - Flammable liquid  
Packing group : III  
Hazchem Code : •3Y

### 14.2. Marine Transport – International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

UN Number : 1263  
UN proper shipping name : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base)  
Hazard Class : 3- Flammable liquid  
Packaging Group : III  
EmS-No.(1) : F-E  
EmS-No.(2) : S-E  
Marine Pollutant : Yes

### 14.3. Air Transport (IATA Code) – the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air

UN Number : 1263  
UN proper shipping name : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base)  
Hazard Class : 3- Flammable liquid  
Packaging Group : III

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Group Standard: HSR002669 - Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020  
HSNO Controls See <http://www.epa.govt.nz> for controls  
NZIoC: All components of this product are listed on or exempt from the New Zealand Inventory of Chemicals  
Approved Handler: Not triggered  
Certificate Required: Not triggered  
Tracking: Not triggered  
ACVM: Not applicable  
Montreal Protocol/ Stockholm Convention/ Rotterdam Convention: Not applicable

## SECTION 16: Other information

In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.

General Information : None  
Reason(s) for Issue : First issue and general compliance with New Zealand WHS Regulations for the preparation of safety data sheets.

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<b>Key abbreviations or acronyms used:</b>	ACGIH: American Conference of Governmental Industrial Hygienist ACVM: Agricultural Compounds and Veterinary Medicines Act 1997 AS/NZS: Standards Australia & Standards New Zealand CAS No: Chemical Abstracts Services Number CCID: Chemical Classification and Information Database EC50: Half maximal effective concentration EEL: Environmental Exposure limits EPA Environmental Protection Authority (New Zealand) GHS: Globally Harmonised System of Classification and Labelling of Chemicals HSNO: Hazardous Substances and New Organisms HSWA: Health and Safety at Work Act 2015 IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG – The International Maritime Dangerous Goods LC50 – Half maximal lethal concentration LD50: Half maximal lethal dose LEL: Lower Explosive Limit NZ: New Zealand NZIoC: New Zealand Inventory of Chemicals NZS 5433 New Zealand Standard Transport of Dangerous Goods on Land OEL – Occupational Exposure Limit OSHA: Occupational Safety and Health Administration SDS – Safety Data Sheet STEL: Short Term Exposure Limit TEL: Tolerable Exposure limits TLV: Threshold Limit Value TWA: Time Weighted Average PEL: Permissible exposure limit UEL: Upper Explosive Limit WES: Workplace Exposure Standard
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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using this material in combination with any other material or any other process is the responsibility of the user. All materials present unknown health hazards and should be used with caution. Although certain hazards are described herein, the manufacturer and its agents cannot guarantee that these are the only hazards which exist. Further, the manufacturer and its agents assume no responsibility for personal injury or property damage to vendors, users, or third-parties caused by this material. User assumes all risks associated with the use of this material. No warranty, express or implied, is made and New Nautical Coatings, Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.