

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** 1284C Tuff Stuff Catalyst  
**Other means of identification:** none  
**Recommended use of the chemical and restrictions on use:** Primer for boat surfaces  
**Supplier:** Akzo Nobel Coatings Ltd.  
**Street address:** 686 Rosebank Road, Avondale, Auckland 7 New Zealand  
**Telephone no.:** (09) 828 3009  
**Emergency telephone:** Poisons Information Centre: 0800 764 766 (24 hours)  
Akzo Nobel Emergency number: 0800 503 008

**For Hazardous Materials [or Dangerous Goods] Incident spill, leaks, fire, Exposure, or Accident**  
**Call CHEMTREC 24 hours 7 days per week**  
**CHEMTREC Outside USA and Canada: +1 703-741-5970 (collect calls accepted)**

### 2. HAZARDS IDENTIFICATION

**Classification of the substance 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 of the substance or mixture:**

Flammable Liquid - Category 3  
Skin Irritation - Category 2  
Eye Damage - Category 1  
Skin Sensitisation – Category 1  
Mutagenicity – Category 1B  
Carcinogenicity – Category 1A  
Specific target organ toxicity (repeated exposure) - Category 1  
Aspiration Hazard - Category 1  
Hazardous to the aquatic environment (chronic) – Category 3

**The following health hazard categories fall outside the scope of the Workplace Health and Safety Regulations**

Hazardous to the aquatic environment (acute) Category 3

**SIGNAL WORD:** Danger



**Hazard Statement(s):**

H226 – Flammable liquid and vapor  
H304 – May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 – May cause an allergic skin reaction.  
H318 – Causes serious eye damage.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:**

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.  
P243 - Take precautionary measures against static discharges  
P260 - Do not breathe dust, fume, mist, spray, vapours, spray  
P261 - Avoid breathing dust, fume, gas, mist, spray, vapours  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 – Do not eat, drink or smoke when using this product.  
P272 – Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor  
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  
P310 – Immediately call a doctor.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see first aid instructions on this label)  
P331 – Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P333+P313 – If skin irritation or rash occurs: 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

**Storage:**

P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.

**Disposal:**

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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion % (w/w)
Fatty acids, C18-unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine	68082-29-1	10 - 30
Solvent naphtha, petroleum, light aromatic	64742-95-6	10 - 30
Xylenes (o-, m-, p- isomers)	1330-20-7	5 - 10
Benzene, 1,2,4-trimethyl-	95-63-6	5 - 10
Diacetone alcohol	123-42-2	3 - 7
Silica: Crystalline, quartz	14808-60-7	1 - 5
1-Butanol	71-36-3	0.5 - 1.5
Ethylbenzene	100-41-4	0.1 - 1
Triethylenetetramine	112-24-3	0.1 - 1
Cumene	98-82-8	0.1 - 1

### 4. FIRST AID MEASURES

Speed in treatment is essential. If poisoning occurs, contact a Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766 or a doctor. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show the label or SDS where possible.

<b>Inhalation:</b>	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.
<b>Skin contact:</b>	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 immediately.
<b>Eye contact:</b>	IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
<b>Ingestion:</b>	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison information centre or medical professional. Get medical attention immediately.
<b>First aid facilities:</b>	Eyewash and normal washroom facilities.
<b>Medical attention and special treatment:</b>	Treat symptomatically

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Carbon dioxide, dry powder, alcohol-resistant foam or sand.
<b>Hazchem Code:</b>	•3Y
<b>Specific hazards arising from the substance or mixture:</b>	Flammable liquid and vapour.
<b>Special protective equipment and precautions for fire-fighters:</b>	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. Do not enter fire area without proper protective equipment, including respiratory protection.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency procedures/ Environmental precautions:</b>	Evacuate unnecessary personnel. Wear protective equipment as described in Section 8. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
<b>Personal precautions/ Protective equipment:</b>	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

**Methods and materials for containment and cleaning up:**

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. 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.

### 7. HANDLING AND STORAGE

**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.

**Conditions for safe storage, including any incompatibilities:**

Keep only in the original container in a cool, well-ventilated place away from: Direct sunlight and heat sources. Keep container closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**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>	
WES (NZ)	TWA 50 ppm (217 mg/m <sup>3</sup> ) Note: Oto (Ototoxin)
ACGIH STEL (ppm)	100 ppm
OSHA STEL (ppm)	150 ppm
<b>Ethylbenzene (100-41-4)</b>	
WES (NZ)	TWA 20 ppm (88 mg/m <sup>3</sup> ) STEL 40 ppm (176 mg/m <sup>3</sup> )
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	upper respiratory tract irritation; kidney damage (nephropathy); cochlear impairment
OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	100 ppm
OSHA PEL (STEL) (mg/m <sup>3</sup> )	545 mg/m <sup>3</sup>
OSHA PEL (STEL) (ppm)	125 ppm
<b>Cumene (98-82-8)</b>	
WES (NZ)	TWA 25 ppm (125 mg/m <sup>3</sup> ) STEL 75 ppm (375 mg/m <sup>3</sup> ) Note: Skin (Skin absorption)
ACGIH TWA (ppm)	50 ppm
OSHA PEL (TWA) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	50 ppm
<b>Toluene (108-88-3)</b>	
WES (NZ)	TWA 20 ppm (75 mg/m <sup>3</sup> ) STEL 100 ppm (377 mg/m <sup>3</sup> ) Note: Skin (Skin absorption) Oto (Ototoxin) Bio (Exposure can also be estimated by biological monitoring)
ACGIH TWA (ppm)	20 ppm

Remark (ACGIH)	Visual impair; female repro;
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
WES (NZ)	TWA 25 ppm (123 mg/m <sup>3</sup> )
<b>1-Butanol (71-36-3)</b>	
WES (NZ)	Ceiling 50 ppm (150 mg/m <sup>3</sup> ) Skin (Skin absorption)
ACGIH TWA (ppm)	20 ppm
OSHA PEL (TWA) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	100 ppm
<b>Mica (12001-26-2)</b>	
WES (NZ)	3 mg/m <sup>3</sup> (r)* *The value for respirable dust
ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
OSHA PEL (TWA) (ppm)	20 mppcf (<1% Crystalline silica)
<b>Silica: Crystalline, quartz (14808-60-7)</b>	
WES (NZ)	TWA 0.05(r)* mg/m <sup>3</sup> Note: Carcinogen Category 1 (α-quartz and cristobalite are confirmed carcinogens). *The value for respirable dust
ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
OSHA PEL (TWA) (mg/m <sup>3</sup> )	(30)/(%SiO <sub>2</sub> + 2) total dust; (10)/(%SiO <sub>2</sub> + 2) respirable fraction
OSHA PEL (TWA) (ppm)	(250)/(%SiO <sub>2</sub> + 5) respirable fraction
<b>Kaolin (1332-58-7)</b>	
WES (NZ)	10 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> (r)* *The value for respirable dust
ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no asbestos and < 1% crystalline silica, respirable fraction)
Remark (ACGIH)	Pneumoconiosis
OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Talc (14807-96-6)</b>	
WES (NZ)	2 mg/m <sup>3</sup> (r)* *The value for respirable dust for Talc containing no asbestos fibres.
ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable fraction
OSHA PEL (TWA) (ppm)	20 mppcf if 1% Quartz or more, use Quartz limit
<b>Diacetone alcohol (123-42-2)</b>	
WES (NZ)	TWA 50 ppm (238 mg/m <sup>3</sup> )
ACGIH TWA (ppm)	50 ppm
OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	50 ppm

**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.

**Individual protection measures, such as Personal Protective Equipment (PPE):**

Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection. Eye wash station and drenching shower in close proximity to use are advised.



- 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 vapours, 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.
- Eye and face 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. Consult AS/NZS 1336 and AS/NZS 1337 for further information.
- Skin protection:** Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Beige
<b>Odour:</b>	No data available
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point:</b>	No data available
<b>Freezing point:</b>	No data available
<b>Initial boiling point:</b>	No data available
<b>Boiling range:</b>	No data available
<b>Flash point:</b>	27.22 °C (81F)
<b>Flammability</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Relative density:</b>	1.34 g/cm <sup>3</sup>
<b>Solubility:</b>	No data available
<b>Partition coefficient: n- octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity, kinematic:</b>	No data available.

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No dangerous reactions known under normal conditions of use.
<b>Chemical stability:</b>	Stable under recommended handling and storage conditions (see section 7).
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	Sparks. Heat. Open flame. Extremely high or low temperatures. Direct sunlight.
<b>Incompatible materials:</b>	No data available.
<b>Hazardous decomposition products:</b>	No data available.

### 11. TOXICOLOGICAL INFORMATION

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

<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LD50 oral rat	3500 mg/kg
<b>Ethylbenzene (100-41-4)</b>	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg
LC50 inhalation rat (mg/l)	17.2 mg/l/4h
<b>Triethylenetetramine (112-24-3)</b>	
LD50 oral rat	2500 mg/kg
<b>Solvent naphtha, petroleum, light aromatic (64742-95-6)</b>	
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
<b>Cumene (98-82-8)</b>	
LD50 dermal rabbit	12300 µl/kg
LC50 inhalation rat (ppm)	> 3577 ppm 6 h
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
LD50 oral rat	3280 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
<b>Toluene (108-88-3)</b>	
LD50 oral rat	2600 mg/kg
LD50 dermal rabbit	12000 mg/kg
LC50 inhalation rat (mg/l)	12.5 mg/l/4h
<b>1-Butanol (71-36-3)</b>	
LD50 oral rat	700 mg/kg
LD50 dermal rabbit	3402 mg/kg
LC50 inhalation rat (ppm)	> 8000 ppm/4h
<b>Silica: Crystalline, quartz (14808-60-7)</b>	
LD50 oral rat	500 mg/kg
<b>Diacetone alcohol (123-42-2)</b>	
LD50 oral rat	4 g/kg

Not classified as acutely toxic by oral, dermal or inhalation routes of exposure.

<b>Skin</b>	Causes skin irritation.
<b>corrosion/irritation:</b>	
<b>Eye damage/irritation:</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation:</b>	May cause an allergic skin reaction. Not considered to be a respiratory sensitiser.
<b>Germ cell mutagenicity:</b>	May cause genetic defects.
<b>Carcinogenicity:</b>	May cause cancer.
<b>Reproductive toxicity:</b>	Not classified.
<b>STOT-single exposure:</b>	Not classified.
<b>STOT-repeated exposure:</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard:</b>	May be fatal if swallowed and enters airways.
<b>Chronic Health</b>	May cause cancer. May cause genetic defects.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Harmful to aquatic life with long lasting effects.
<b>Persistence/Degradability:</b>	No information available
<b>Bioaccumulative potential:</b>	No information available
<b>Mobility in soil:</b>	This product is moderately mobile in soil and likely to volatilize from soil surface.
<b>Environmental exposure limits (EEL):</b>	Not applicable

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods:</b>	Dispose the empty container in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Do not discharge to public wastewater systems without permit of pollution control authorities.
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### 14. TRANSPORT INFORMATION

<b>Road and Rail</b>	Classified as Dangerous Goods as per the New Zealand Transport Legislation (NZS5433); DANGEROUS GOODS	
<b>Transport:</b>	UN Number:	1263
	Proper Shipping Name or Technical Name:	Paint related material (including paint thinning or reducing compound)
	Transport Hazard Class:	3
	Packaging Group:	III
	Hazchem Code:	•3Y
<b>Marine Transport:</b>	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.	
	UN Number:	1263
	Proper Shipping Name or Technical Name:	Paint related material (including paint thinning or reducing compound)
	Transport Hazard Class:	3
	Packaging Group:	III
	IMDG EMS Fire:	F-E
	IMDG EMS Spill:	S-E
<b>Air Transport:</b>	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.	
	UN Number:	1263
	Proper Shipping Name or Technical Name:	Paint related material (including paint thinning or reducing compound)
	Transport Hazard Class:	3
	Packaging Group:	III

### 15. REGULATORY INFORMATION

<b>HSNO Group Standard</b>	EPA Group Standard: HSR002669 - Surface Coatings and Colourants (Flammable, Carcinogenic)
<b>HSNO controls:</b>	See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls
<b>NZIoC:</b>	All components of this product are listed on or exempt from the New Zealand Inventory of Chemical
<b>Approved Handler:</b>	No
<b>Certificate Required:</b>	No
<b>Tracking:</b>	No
<b>ACVM:</b>	Not applicable
<b>Montreal Protocol/ Stockholm Convention/ Rotterdam Convention:</b>	Not applicable



### 16. OTHER INFORMATION

<b>General information:</b>	None
<b>Issue number:</b>	001
<b>Issue date:</b>	06 March 2023
	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.
<b>Reason(s) for issue:</b>	First issue and general compliance with EPA Hazardous Substances (Safety Data Sheet) Notice.
<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 HSN0: 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

The physical values and properties described in this SDS are typical values based on scientific literature and material produced to date, and are believed to be reliable. The manufacturer provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. The information is supplied upon the condition that the persons receiving information will make their own determination as to the suitability for their purposes prior to use of this product. Due care should be taken to ensure that the use of this product and its disposal is in compliance with all relevant Federal, State and Local Government regulations.

**End of SDS**