



# SAFETY DATA SHEET

1. Identification			
Product identifier	Nukote CBR, B-Side		
Other means of identification	None.		
Recommended use of the chem			
Recommended use	Coating.		
Restrictions on use	-	potential presence of respirable crystalline silica and	
Details of manufacturer or impo	rter		
Supplier	Nukote Coating Systems International		
Company name	Nukote Distributors Pty Ltd		
Address	P.O. Box 275		
	Wickham NSW 2293		
	Australia		
Telephone	02 4911 2000		
Emergency telephone	1800 039 008 (Chemwatch)		
2. Hazard(s) identification			
Classification of the hazardous	chemical		
Physical hazards	Not classified.		
Health hazards	Serious eye damage/eye irritation	Category 2	
	Carcinogenicity (inhalation)	Category 1A	
	Specific target organ toxicity following repeated exposure	Category 2 (Pancreas)	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2	
	Hazardous to the aquatic environment, long-term hazard	Category 2	
Label elements, including preca	utionary statements		
Hazard symbol(s)			
	Health Exclamation Environment hazard mark		
Signal word	Danger		
Hazard statement(s)	Causes serious eye irritation. May cause cancer by inhalation. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.		
Precautionary statement(s)			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.		
Storage	Store locked up.		
	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Disposal	Dispose of contents/container in accordance v	vith local/regional/national/international regulations.	

#### Other hazards which do not None known. result in classification

### 3. Composition/information on ingredients

### Mixture

CAS number and other Concentra unique identifiers ingredie	
68479-98-1	11 - 20
13463-67-7	2 - 4
1333-86-4	0.3 - 0.6
14808-60-7	0.1 - 0.2
	unique identifiers           68479-98-1           13463-67-7           1333-86-4

**Composition comments** 

All concentrations are in percent by weight. The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret. Components not listed are either non-hazardous or are below reportable limits.

### 4. First-aid measures

### Description of necessary first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.	
Personal protection for first-aid responders	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
Symptoms caused by exposure	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.	
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	

### 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed such as: Organic vapors.
Special protective equipment and precautions for fire fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire, do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Control contaminated fire water to minimize release to the environment.
Hazchem code	•3Z
General fire hazards	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

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

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin, and clothing. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods and materials for	Prevent product from entering drains.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Protect from direct sunlight. Store in a cool, dry and well-ventilated place. Protect from moisture. Store in tightly closed container. Keep container tightly sealed when not in use. Store away from incompatible materials (see section 10 of the SDS). Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Inhalable dust.
Australia. OELs. (Adopted Nationa Environment)	al Exposure Standards for At	mospheric Contaminants in the	e Occupational
Components	Туре	Value	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
UK. EH40 Workplace Exposure Li	mits (WELs)		
Components	Туре	Value	Form
Carbon black (CAS	STEL	7 mg/m3	
1333-86-4)			
1333-86-4)	TWA	3.5 mg/m3	

Components	Туре	Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
		10 mg/m3	Inhalable
Germany. DFG MAK List ( in the Work Area (DFG)	advisory OELs). Commission for the In	vestigation of Health Hazard	ds of Chemical Compounds
Components	Туре	Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Inhalable dust.
		0.3 mg/m3	Respirable dust.
iological limit values	No biological exposure limits noted for	r the ingredient(s).	
ppropriate engineering ontrols	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Provide eyewash station.		
dividual protection measure	s, for example personal protective equi	pment (PPE)	
Eye/face protection	When working with liquids wear splash-proof chemical goggles and face shield unless full facepiece respiratory protection is worn.		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Nitrile, neoprene, PVC or rubber gloves are recommended. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Contaminated gloves should be replaced. Other suitable gloves can be recommended by the glove supplier.		
Other	Wear suitable protective clothing. Use of an impervious apron is recommended.		
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions or a positive pressure self-contained breathing apparatus (SCBA). Check with respiratory protective equipment suppliers.		
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
ygiene measures	Observe any medical surveillance req measures, such as washing after hand smoking. Routinely wash work clothin	dling the material and before e	eating, drinking, and/or

## 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Amber. Pigmented.
Odour	Mild chemical.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	307.8 °C (586 °F)
Flash point	135.0 °C (275.0 °F)
Evaporation rate	Slower than ether.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.

Vapour density	Heavier than air.
Relative density	1.07 (H20=1)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other physical and chemical pa	rameters
Density	8.91 lb/gal
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
VOC	0 lb/gal
10. Stability and reactivity	/
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Keep away from moisture. Heat. High temperatures. Open flame. Contact with incompatible materials.
Incompatible materials	This product will react with any material containing isocyanate. Some reactions can be violent.
Hazardous decomposition products	Organic vapour.

# 11. Toxicological information

Information on	possible routes	of exposure
----------------	-----------------	-------------

information on possible routes	orexposure	
Inhalation	with asthma like symptoms. The	armful. Severe overexposure may induce respiratory sensitization ese symptoms may be immediate or delayed up to several hours res may result in permanent decreases in lung function.
Skin contact	The product may be absorbed through skin and cause nausea, headache, and general discomfort.	
Eye contact	Causes serious eye irritation. Vapors can irritate the eyes. Chemical burns may result due to overexposure. Affects of exposure may be delayed.	
Ingestion	If ingested : In humans, irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion, and injury may be severe and cause death.	
Symptoms related to exposure	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.	
Acute toxicity	May be harmful if swallowed.	
Components	Species	Test Results
Carbon black (CAS 1333-86-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Oral		
LD50	Rat	> 8000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cau	use temporary irritation.
Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin sensitisation	n	
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.	
Skin sensitisation	Skin sensitization may develop after repeated and/or prolonged contact.	
Germ cell mutagenicity	No data available to indicate pro mutagenic or genotoxic.	oduct or any components present at greater than 0.1% are
Nukote CBR, B-Side		SDS Australi

Carcinogenicity	May cause cancer by inhalation.	
ACGIH Carcinogens		
Carbon black (CAS 1333-86-4)		A3 Confirmed animal carcinogen with unknown relevance to humans.
Crystalline silica (Quartz) (CAS 14808-60-7)		A2 Suspected human carcinogen.
Titanium dioxide (CAS 13463-67-7)		A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall E	Evaluation of Carcinogenicity	
Carbon black (CAS 1333-86-4)		2B Possibly carcinogenic to humans.
Crystalline silica (Quartz) (CAS 14808-60-7)		1 Carcinogenic to humans.
Titanium dioxide (CAS 13463-67-7)		2B Possibly carcinogenic to humans.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure by inhalation.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure by inhalation. Repeated and prolonged exposure at low levels may result adverse skin and eye effects, liver and kidney disorders.	

### 12. Ecological information

Ecotoxicity	Toxic to a	quatic life with long lasting effect	cts.
Components		Species	Test Results
Carbon black (CAS 1333-86-4)			
Aquatic			
Acute			
Fish	LC50	Leuciscus idus	>= 1000 mg/l, 96 Hours
Persistence and degradability	Carbon Black's insolubility in water results in it not being biodegradable in any medium or by biota. It is considered persistent in the natural environment.		
Bioaccumulative potential	No data available on bioaccumulation.		
Mobility in soil	No data available for this product.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideratio	ons		
Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after contair emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
14. Transport information	1		
ADG			
UN number	3082		
UN proper shipping name		MENTALLY HAZARDOUS SU	BSTANCE, LIQUID, N.O.S.
Transport hazard class(es)			
Class	9		
Subsidiary risk	-		

Packing groupIIIEnvironmental hazardsYesHazchem code•3ZSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling. Read safety<br/>instructions, SDS and emergency procedures before handling.

Nukote CBR, B-Side

#### RID

RID	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Diethylmethylbenzenediamine)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Diethylmethylbenzenediamine)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Diethylmethylbenzenediamine)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	

### 15. Regulatory information

#### Safety, health and environmental regulations

National regulations	į
Australia Medici	i

No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.

### Australia Medicines & Poisons Appendix A Poisons schedule number not allocated. Australia Medicines & Poisons Appendix B Poisons schedule number not allocated. Australia Medicines & Poisons Appendix D Poisons schedule number not allocated. Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated. Australia Medicines & Poisons Appendix F

Diethylmethylbenzenediamine (CAS 68479-98-1)

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

<b>Country(s) or region</b> Australia	-	hemical Substances (AICS)	Ye
Country(a) or region	inveniory name		On inventory (yes/no)
ernational Inventories	Inventory name		On inventory (vestar)
Not applicable.			
Basel Convention			
Montreal Protocol Not applicable.			
Kyoto Protocol Not applicable.			
Not applicable.			
Not applicable. Rotterdam Convention			
Stockholm Convention			
ernational regulations			
Restricted Carcinogenic Not regulated.	Substances		
Not listed.	Substances		
<b>Resricted Importation of</b>	Organochlorine Chemicals	(Customs(Prohibited Imports) Regulation	ons 1956, Schedule 9)
NOHSC:1005 (1994) as an Not listed.	-		Jubstances, Jonedule 2
Not regulated. Prohibited Substances (I	National Model Regulation f	or the control of Workplace Hazardous \$	Substances, Schedule 2
Prohibited Carcinogenic	Substances		513. LIV
Titanium dioxide (CAS	• • • •	2000 TONNES/YR Threshold Cate 400 TONNES/YR Threshold Categ	
	ory (NPI) substance reporti	ng list	
Not listed.	ieung Substances (Customs	s(Prohibited imports) Regulations 1956,	Schedule TV)
		information.	-
Titanium dioxide (CAS		information. 100000 - 999999 TONNES See the	-
·	rtz) (CAS 14808-60-7)	information. 100000 - 999999 TONNES See the	-
High Volume Industrial C Carbon black (CAS 13		10000 - 99999 TONNES See the re	agulation for additional
Australia Medicines & Po Poisons schedule nun			
Australia Medicines & Po Poisons schedule nun	nber not allocated.		
Poisons schedule nun	nber not allocated.		
Poisons schedule nun Australia Medicines & Po			
Poisons schedule nun Australia Medicines & Po			
Australia Medicines & Po	bisons Schedule 5		
Australia Medicines & Po Poisons schedule nun			
Australia Medicines & Po Poisons schedule nun			
Poisons schedule nun	nber not allocated.		
Poisons schedule nun Australia Medicines & Po			
	oisons Schedule 10		
Australia Medicines & Po	iber not allocated.		
Australia Medicines & Po Poisons schedule nun Australia Medicines & Po			

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product co	mplies with the inventory requirements administered by the governing country(s)	

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information

Issue date	05-June-2020
Revision date	-
Disclaimer	NuKote Coating Systems cannot anticipate all conditions u product, or the products of other manufacturers in combina the user's responsibility to ensure safe conditions for hand

NuKote Coating Systems cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.