



NEW HOPE
GROUP

G.10 Hazard and Risk





NEW HOPE
GROUP

G.10.1 Hazardous Substances List



Appendix G.10.1 – Hazardous Substances List

The Hazardous Substances approved for use at New Acland Coal Mine are listed below.

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
3M FC-3034 LIGHT WATER AFFF FIRE FIGHTING FOAM 6% CONCENTRATE (PRODUCT OBSOLETE)	3M AUSTRALIA PTY LIMITED	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
84-1-81869 ROADMASTER HS WHITE	DULUX AUSTRALIA	AMBER	Yes	1263	3	N/A	II	*3YE	5	Approved
ALTO ANTI-STONE (PRODUCT OBSOLETE)	INDUSTRIAL CLEANING EQUIPMENT	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ANFO	DYNO NOBEL ASIA PACIFIC LIMITED	RED	Yes	82	1.1D	N/A	N/A	E	5	Approved
AQUATAIN (PRODUCT OBSOLETE)	ULTIMATE PRODUCTS	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
BAYGON HIGH PERFORMANCE SURFACE SPRAY (PRODUCT OBSOLETE)	S.C. JOHNSON & SON PTY. LTD. (AUSTRALIA)	AMBER	No	1950	2.1	N/A	N/A	2Y	5	Approved
BLASTAC GAS BAG	SUBPRO PTY LTD	GREEN	No	1950	2.2	N/A	N/A	2Y	None Allocated	Approved
BORESAVER LIQUID	AQUABIOTICS PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
BS 1000 BIO-DEGRADABLE SURFACTANT	CROP CARE AUSTRALASIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
CALCURE B	CEMENTAID PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
CHEMSET MAXIMA CAPSULES M20 M24	RAMSET FASTENERS (AUST) PTY LTD	AMBER	Yes	3269	3	N/A	III	3Y	5	Approved
CIGWELD SPATTER-SAFE II - IMPROVED FORMULA	CIGWELD PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
CISLIN RESIDUAL INSECTICIDE (PRODUCT OBSOLETE)	BAYER CROPSCIENCE AUSTRALIA	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
CONDUCTIVITY STANDARD 2.76 MS/CM	AUSTRALIAN CHEMICAL REAGENTS	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
COPPER SULPHATE PENTAHYDRATE (REDOX)	REDOX CHEMICALS PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
CRC 2015, 2016 CO CONTACT CLEANER (AEROSOL) (NZ)	CRC INDUSTRIES (NEW ZEALAND)	AMBER	Yes	1950	2.1	N/A	N/A	2Y	None Allocated	Approved
DECON 90 (THERMO FISHER)	THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
DITRAC ALL WEATHER BLOX RODENTICIDE	BELL AUSTRALIA PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	6	Approved
DOMESTOS	DIVERSEY NEW ZEALAND LTD	AMBER	Yes	3266	8	N/A	III	2X	5	Approved
DY-MARK FLAWCHEK STEP 1 PRECLEAN AEROSOL	DY-MARK AUSTRALIA	AMBER	Yes	1950	2.2	N/A	N/A	2Y	None Allocated	Approved
DY-MARK FLAWCHEK STEP 2	DY-MARK AUSTRALIA	AMBER	Yes	1950	2.1	N/A	N/A	2Y	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
PENETRANT AEROSOL										
DY-MARK FLAWCHEK STEP 3 REMOVER AEROSOL	DY-MARK AUSTRALIA	AMBER	Yes	1950	2.1	N/A	N/A	2Y	None Allocated	Approved
DY-MARK FLAWCHEK STEP 4 DEVELOPER AEROSOL	DY-MARK AUSTRALIA	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
DY-MARK LINE-MARKING AEROSOL SELECTED COLOURS	DY-MARK AUSTRALIA	AMBER	Yes	1950	2.1	N/A	N/A	2YE	5	Approved
ECO-CLIN URINAL TABS	ECOLAB PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
EXTRA LOW SULFUR DIESEL	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
F-500, FIRE FIGHTING AGENT	HAZARD CONTROL TECHNOLOGIES, INC	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	On Trial
FORMULA 575C	ECOLAB PTY LTD	RED	Yes	1824	8	N/A	II	2R	5	Approved
FORMULA 759N (PRODUCT OBSOLETE)	ECOLAB PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
GOSS DRI-LUBE	GOSS PRODUCTS PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
GRAZON DS HERBICIDE (PRODUCT OBSOLETE)	DOW AGROSCIENCES AUSTRALIA LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
HANDIGAS (LIQUEFIED)	AFRICAN OXYGEN LTD	AMBER	Yes	1075	2.1	N/A	N/A	2YE	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
PETROLEUM GAS)	(AFROX)									
HANDY ANDY PINK	CLOROX AUSTRALIA PTY LIMITED	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
HI-TEX 82230	NALCO AUSTRALIA PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
HORTICO RATSACK 1 SHOT RAT & MOUSE KILLER	HORTICO, A DIVISION OF DULUXGROUP (AUSTRALIA) PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	6	Approved
HOVEX ANT KILLER LIQUID	PASCOE'S PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	5	Approved
HYPERSPERSE SI300UL	GE BETZ PTY LIMITED	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ISOPROPYL ALCOHOL (SCIENCELAB)	SCIENCELAB.COM, INC	AMBER	Yes	1219	3	N/A	II	*2YE	None Allocated	Approved
KEROSENE	RECOCHEM INC (FORMERLY DIGGERS)	AMBER	Yes	1223	3	N/A	III	3Y	None Allocated	On Trial
LECTRA CLEAN (AEROSOL) (POST FEBRUARY 2001)	CRC INDUSTRIES (AUST) PTY LIMITED	AMBER	Yes	1950	2.2	N/A	N/A	2Y	None Allocated	Approved
LIPLEX EP2	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
LOCTITE 243	HENKEL LIMITED. UK	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
LOCTITE SILVER GRADE ANTI-SEIZE LUBRICANT	HENKEL AUSTRALIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
LONG LIFE (AEROSOL)	CRC INDUSTRIES (AUST) PTY LIMITED	AMBER	No	1950	2.1	N/A	N/A	2Y	None Allocated	Approved
MANTLE	ECOLAB PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
METHANOL	RECOHEM INC (FORMERLY DIGGERS)	AMBER	Yes	1230	3	6.1	II	*2WE	6	Approved
MOLYBOND 122L AEROSOL (CHROMATE FREE)	ITW POLYMERS & FLUIDS PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
MORTEIN NEST KILL COCKROACH BAITS	RECKITT BENCKISER (AUSTRALIA) PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	5	Approved
MORTEIN OUTDOOR ANT SAND	RECKITT BENCKISER (AUSTRALIA) PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
MR SHEEN WATERGUARD AEROSOL	RECKITT BENCKISER (AUSTRALIA) PTY LTD	GREEN	No	1950	2.1	N/A	N/A	2Y	None Allocated	Approved
NALCOAG 3268	NALCO AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
NITROGEN, COMPRESSED	BOC LIMITED (AUSTRALIA)	AMBER	No	1066	2.2	N/A	N/A	2T	None Allocated	Approved
NYLOBOND CEMENT (PRODUCT OBSOLETE)	GOODYEAR TYRE & RUBBER CO	AMBER	Yes	1133	3	N/A	II	*3YE	5	Approved
OPTIMER 9960 (PRODUCT OBSOLETE)	NALCO AUSTRALIA PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
OXYGEN, COMPRESSED	BOC LIMITED (AUSTRALIA)	GREEN	No	1072	2.2	5.1	N/A	2S	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
PALMOLIVE DISH LIQUID - ALL VARIANTS	COLGATE-PALMOLIVE CANADA INC.	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
PENETRENE BULK	QUICK SMART PRODUCTS	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
PH7.0 CLEAR BUFFER SOLUTION	AJAX FINECHEM	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
PLUGFOAM PART A (PRODUCT OBSOLETE)	AUSTRALIAN URETHANE SYSTEMS PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
PLUGFOAM PART B (PRODUCT OBSOLETE)	AUSTRALIAN URETHANE SYSTEMS PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
POLYCOM COMPACTION AID	BIOCENTRAL LABORATORIES LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
PRESICHEM POLESAYER RODS & BIOGUARD	PRESICHEM PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
RAID COMMERCIAL INSECTICIDE ODOURLESS FLY AND INSECT KILLER	DIVERSEY AUSTRALIA PTY. LIMITED	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
RAMSET CHEMSET 801 EPOXY ADHESIVE (PRE-OCTOBER 2011)	RAMSET FASTENERS (AUST) PTY LTD	AMBER	Yes	1760	8	N/A	III	2X	5	Approved
RAMSET FOMOFILL	RAMSET FASTENERS (AUST) PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2Y	None Allocated	Approved
RED URETHANE SEAL COAT	CRC INDUSTRIES (AUST)	AMBER	Yes	1950	2.1	N/A	N/A	2Y	None Allocated	Approved

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	PTY LIMITED									
RICHGRO ANT KILLER	RICHGRO GARDEN PRODUCTS	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
RID REPELLENT TROPICAL STRENGTH SPRAY AEROSOL	THORLEY LABORATORIES	GREEN	No	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
ROCOL ULTRACUT LONG LIFE	ITW POLYMERS & FLUIDS PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ROUNDUP BIACTIVE	NUFARM AUSTRALIA LIMITED	AMBER	No	N/A	N/A	N/A	N/A	N/A	5	Approved
ROUNDUP CT BROADACRE HERBICIDE	NUFARM AUSTRALIA LIMITED	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
SCALE-GUARD 84614	NALCO AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SEAL-ZIT	BRIDGESTONE EARTHMOVER TYRES PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SHIELD CITRUS	DIVERSEY AUSTRALIA PTY. LIMITED	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SHOWERMATE	ECOLAB PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SIKAFLEX 11FC (JP)	SIKA AUSTRALIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SIKAFLEX 221	SIKA AUSTRALIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	7	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
SILASTIC FORMED IN PLACE GASKET - CLEAR	DOW CORNING AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SODIUM CHLORIDE 0.9% IRRIGATION	PFIZER AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SPEAKMAN EYE WASH PRESERVATIVE	BBC BIOCHEMICAL	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SPOT MARKING PAINT - FLUORO PINK	SIGNET IDENTIFICATION SYSTEMS PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2YE	5	Approved
SULPHURIC ACID 98.5%	SOUTHERN CROSS FERTILISERS (MT ISA SULFURIC ACID PLANT)	RED	Yes	1830	8	N/A	II	2P	6	Approved
SUMA CLASSIC M7	DIVERSEY AUSTRALIA PTY. LIMITED	AMBER	Yes	3253	8	N/A	III	2X	5	Approved
SUNSENSE CREAM (PRODUCT OBSOLETE)	EGO PHARMACEUTICALS PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SYLVAN 90 (PRODUCT OBSOLETE)	ECOLAB PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
SYNTHESO HT 460 (PRODUCT OBSOLETE)	KLUBER LUBRICATION AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SYNTRANS M 75W-90	BP AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	6	Approved
THUBAN GL5 EP SAE 80W-90	CALTEX AUSTRALIA (CALTEX & AMPOL	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
	PRODUCTS)									
TIP TOP CEMENT SC 2000	REMA TIP TOP AUSTRALIA PTY LTD	AMBER	Yes	1710	6.1	N/A	III	2Z	6	Approved
TIP TOP CEMENT SC 4000	REMA TIP TOP AUSTRALIA PTY LTD	AMBER	Yes	1133	3	N/A	II	*3YE	5	Approved
TIP TOP HARDENER E 40	REMA TIP TOP AUSTRALIA PTY LTD	AMBER	Yes	1133	3	N/A	II	*3YE	5	Approved
TIP TOP HARDENER UT-R20	STAHLGRUBER / OTTO GRUBER GMBH & CO	AMBER	Yes	1593	6.1	N/A	III	2Z	5	Approved
TOTAL BRITE 2 (PRODUCT OBSOLETE)	ECOLAB PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
TOTAL WASHROOM CLEANER	CENTRAL WEST MCCARTHY'S	AMBER	Yes	3264	8	N/A	III	2X	5	Approved
TOUGHWASH	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
TRANSFORMER OIL BSI	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ULTRACOLOR AEROSOL LINE MARKER - COLOUR RANGE	ZEUS CHEMICAL PRODUCTS (ALSO TRADING AS ULTRACOLOR PRODUCTS)	AMBER	Yes	1950	2.1	N/A	N/A	2Y	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
VALENCIA	AIM GROUP AUSTRALASIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
VIRKON 50 GM SACHETS	MERCK PTY LIMITED	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
VISTA WHITEBOARD CLEANER	VISTA VISUALS AUSTRALIA	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
WASP KILLER	NEW GENERATION AEROSOLS PTY LTD	AMBER	Yes	1950	2.2	N/A	N/A	2Y	5	Approved
WELLER BUTANE GAS REFILL	MULTIFILL PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
WINDOW CLEANER CONCENTRATE	CLEANTEC, A BRAND OF ECOLAB (FORMERLY CAMPBELL CLEANTEC)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
ACETYLENE	BOC LIMITED (AUSTRALIA)	AMBER	Yes	1001	2.1	N/A	N/A	2SE	None Allocated	Approved
ARGON BASED COMPRESSED GAS MIXTURE, INCLUDING ARCAL, BLUESHIELD, ALIGAL63	AIR LIQUIDE AUSTRALIA	AMBER	No	1956	2.2	N/A	N/A	2TE	None Allocated	Approved
ARGOSHIELD LIGHT	BOC LIMITED (AUSTRALIA)	AMBER	No	1956	2.2	N/A	N/A	2TE	None Allocated	Approved
AUTOCRAFT NI-CR-MO	CIGWELD PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
BAKERS SOLDERING FLUID	CONSOLIDATED ALLOYS	AMBER	Yes	1760	8	N/A	III	2X	6	Approved
CIGWELD ARCAIR DC GOUGING CARBONS	CIGWELD PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ROCOL SPATTER RELEASE	ITW POLYMERS & FLUIDS	AMBER	Yes	1950	2.2	6.1	N/A	2Y	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
SPRAY (PRODUCT OBSOLETE)	PTY LTD									
TUBULAR ARC WELDING ELECTRODES FOR FLUX CORED, METAL CORED AND COMPOSITE SUBMERGED ARC WELDING	HOBART BROTHERS	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
VERTI-COR 3XP	CIGWELD PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
WIA AUSTARC 12P	WELDING INDUSTRIES OF AUSTRALIA (WIA)	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
3M CATERPILLAR CEMENT 5H2471	CATERPILLAR OF AUSTRALIA	AMBER	Yes	1133	3	N/A	II	*3YE	5	Approved
569 THREAD SEALANT 250ML	HENKEL AUSTRALIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
AQUEOUS PARTS CLEANING DETERGENT	ERS AUSTRALIA	AMBER	Yes	1759	8	N/A	III	2X	5	Approved
ARMOR ALL PROTECTANT ORIGINAL	ARMORED AUTOGROUP AUSTRALIA & NEW ZEALAND	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
AUTOTRANS FLUID IID (PRODUCT OBSOLETE)	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
BATTERY TERMINAL PROTECTOR (CRC)	CRC INDUSTRIES (AUST) PTY LIMITED	AMBER	Yes	1950	2.1	N/A	N/A	2Y	5	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
BELT GRIP AEROSOL SPRAY	CHEM PACK PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2Y	5	Approved
BIO-DEGREASER	BERNADINI PTY LTD (TRADING AS LUBRICANT SPECIALISTS AUSTRALIA)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
BREAKOUT BLUE	TALCOR PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
CARBON DIOXIDE CYLINDER (NZ)	BOC LIMITED (NEW ZEALAND)	AMBER	No	1013	2.2	N/A	N/A	2T	None Allocated	Approved
CAT ANTI-SEIZE COMPOUND (HIGH TEMP)	CHEMTOOL INCORPORATED	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
CAT ELC (EXTENDED LIFE COOLANT) EXTENDER	CHEVRON TEXACO GLOBAL LUBRICANTS	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
CATERPILLAR ANTIFREEZE	CATERPILLAR OF AUSTRALIA	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
CATERPILLAR CAT ELC (EXTENDED LIFE COOLANT) PREMIX 50/50	CATERPILLAR OF AUSTRALIA	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
CATERPILLAR LIQUID GASKET-A	CATERPILLAR OF AUSTRALIA	AMBER	Yes	1993	3	N/A	II	*3YE	5	Approved
CATERPILLAR SMOKE CANDLE	CATERPILLAR OF AUSTRALIA	AMBER	No	N/A	N/A	N/A	N/A	N/A	6	Approved
CATERPILLAR THREAD LUBRICANT (WAS GRAPHITE	CATERPILLAR OF AUSTRALIA	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
50)										
CHEMLOK 205 (US)	LORD CORPORATION	AMBER	Yes	1133	3	N/A	II	*3YE	5	Approved
DELO 400 MUL TIGRADE SAE 15W-40	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
EXTENDED LIFE COOLANT PRE-MIXED 50/50	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
FINISH POWERPOWDER	RECKITT BENCKISER (AUSTRALIA) PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
GALMET COLD GALVANIZING AEROSOL	ITW POLYMERS & FLUIDS PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
GAS-GLO 32	SPECTRONICS CORPORATION. USA	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	On Trial
GLEN 20 SURFACE SPRAY DISINFECTANT, ALL SCENT	RECKITT BENCKISER (AUSTRALIA) PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
HD BRAKE FLUID (PRODUCT OBSOLETE)	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
HOLTS BEARING BLUE	MMP INDUSTRIAL PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
LIQUID NITROGEN	BOC LIMITED (AUSTRALIA)	AMBER	No	1977	2.2	N/A	N/A	2T	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
LOCTITE 667 THREAD SEALANT	HENKEL AUSTRALIA PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
LOCTITE 7471 PRIMER (AEROSOL)	HENKEL AUSTRALIA PTY LTD	AMBER	Yes	1950	2.1	N/A	N/A	2Y	5	Approved
MEGADURE CERAMIC - PART A	VIVACITY ENGINEERING PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	5	Approved
MEGADURE CERAMIC - PART B (QUICK SET)	VIVACITY ENGINEERING PTY LTD	AMBER	Yes	2922	8	6.1	II	2X	6	Approved
MEGADURE CERAMIC - PART B (STANDARD)	VIVACITY ENGINEERING PTY LTD	AMBER	Yes	2259	8	N/A	II	2X	5	Approved
MINE GREASE PREMIUM 2	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
PENETRENE AEROSOL	QUICK SMART PRODUCTS	AMBER	Yes	1950	2.1	N/A	N/A	2YE	5	Approved
ROCK DRILL LUBE 320	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ROCOL WHITE CHAIN & DRIVE SPRAY	ITW POLYMERS & FLUIDS PTY LTD	AMBER	No	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
SYNTHETIC WHEEL MOTOR LUBRICANT EP 460	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
TORQUE FLUID 32	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
TORQUE FLUID 414	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	5	Approved
TOYOTA LONG LIFE COOLANT	TOYOTA MOTOR CORPORATION AUSTRALIA	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
TW20	SEPTONE PRODUCTS PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
TYCO TEST SMOKE	SIMPLEX FIRE PRODUCTS	AMBER	Yes	1950	2.1	N/A	N/A	2YE	None Allocated	Approved
ULTRA-DUTY GREASE 1	CALTEX AUSTRALIA (CALTEX & AMPOL PRODUCTS)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
ZINC CREAM	ORION LABORATORIES PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
AMC LIQUI-POL	AMC	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
PENTEX BOOSTERS	ORICA AUSTRALIA PTY LTD	RED	Yes	42	1.1D	N/A	N/A	E	None Allocated	Approved
RIOFLEX MATRIX	MAXAM AUSTRALIA PTY LIMITED (FORMERLY UEE EXPLOSIVES)	AMBER	No	3375	5.1	N/A	II	1YE	None Allocated	Approved
AEROGARD PERSONAL INSECT REPELLENT LOTION -	RECKITT BENCKISER	GREEN	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
TROPICAL STRENGTH (PRODUCT OBSOLETE)	(AUSTRALIA) PTY LTD									
AEROGARD PERSONAL INSECT REPELLENT TROPICAL STRENGTH ROLL-ON	RECKITT BENCKISER (AUSTRALIA) PTY LTD	GREEN	No	1170	3	N/A	III	*2Y	None Allocated	Approved
BIFLEX AQUAMAX INSECTICIDE	FMC AUSTRALASIA PTY LTD (FORMERLY FMC (CHEMICALS))	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	6	Approved
NAPA PREM PERF ATF TYPE FA TRANSMISSION OIL	ASHLAND DISTRIBUTION CO. & ASHLAND SPECIALTY CHEMICAL CO	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
REFLECTION	SEPTONE PRODUCTS PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
REINOL HAND CLEANER	REINOL AUSTRALIA	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
RENTOKIL BROMAKIL RANGE OF PRODUCTS	RENTOKIL INITIAL PTY LTD	AMBER	No	N/A	N/A	N/A	N/A	N/A	6	Approved
D-TER ANIMAL & BIRD REPELLANT	LORAC AUSTRALIA	AMBER	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
INERGEN (WORMALD)	WORMALD	AMBER	No	1956	2.2	N/A	N/A	2TE	None Allocated	Approved
SCALE-GUARD 84656	NALCO AUSTRALIA PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	On Trial
BIOCLEAN 511 (PRODUCT OBSOLETE)	A 1 FILTRATION SALES & SERVICE PTY LTD (PAST)	AMBER	Yes	3267	8	N/A	III	2X	None Allocated	Approved

PRODUCT NAME	MANUFACTURER	COLOUR RATING	HAZARDOUS	UN NO	DG CLASS	SECONDARY DG CLASS	PKG GROUP	HAZCHEM CODE	POISON SCHEDULE (Australia)	STATUS
	DISTRIBUTOR)									
BIOCLEAN 882 (PRODUCT OBSOLETE)	A 1 FILTRATION SALES & SERVICE PTY LTD (PAST DISTRIBUTOR)	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
FINISH POWERBALL TABLETS	RECKITT BENCKISER (AUSTRALIA) PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
JIF CREAM LEMON (PRODUCT OBSOLETE)	DIVERSEY NEW ZEALAND LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
LEMON AID (PRODUCT OBSOLETE)	ECOLAB PTY LTD	AMBER	Yes	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
METHYLATED SPIRITS	SEPTONE PRODUCTS PTY LTD	AMBER	No	1170	3	N/A	II	*2YE	5	Approved
MOP-N-CLEAN	CLEANTEC, A BRAND OF ECOLAB (FORMERLY CAMPBELL CLEANTEC)	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SHIELD PINE	DIVERSEY AUSTRALIA PTY. LIMITED	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SHOWER POWER	OZKLEEN ASIA-PACIFIC PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SPRING CLEAN	ECOLAB PTY LTD	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved
SPRING DISINFECTANT	HORIZON AUSTRALIA P/L	GREEN	No	N/A	N/A	N/A	N/A	N/A	None Allocated	Approved

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NEW HOPE
GROUP

G.10.2 Material Safety Data Sheets



SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATIONPRODUCT NAME : **NALCOAG® 3268**COMPANY IDENTIFICATION :
Nalco Australia Pty Ltd
2 Anderson Street
Botany N.S.W. 2019
Australia
A.B.N. 41 000 424 788
TEL: +61 2 9392 3500
FAX: +61 2 9666 5292EMERGENCY TELEPHONE NUMBER(S) : 1800 205 506
International: +65 6542 9595 Free call: +800 2537 8747Date issued : 22.06.2012
Version Number : 1.4**2. HAZARDS IDENTIFICATION**

HAZARD CLASSIFICATION :

Not classified as hazardous according to the Australian Safety & Compensation Council (ASCC). This product is not classified as a dangerous good according to national or international regulations.

SAFETY PHRASES

S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NO	% (w/w)
Ingredients determined not to be hazardous		100

4. FIRST AID MEASURES

EYE CONTACT :

Immediately flush eye with water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT :

Remove contaminated clothing. Wash off affected area immediately with plenty of water. If symptoms develop, seek medical advice.

INGESTION :

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If symptoms develop, seek medical advice.

INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : Not flammable

EXTINGUISHING MEDIA :

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

Not flammable or combustible.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Ventilate spill area if possible. Do not touch spilled material. Ensure clean-up is conducted by trained personnel only. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Keep the containers closed when not in use. Ensure all containers are labeled.

STORAGE CONDITIONS :

Store the containers tightly closed. Store in suitable labeled containers.

SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

None of the components have been assigned an exposure standard by ASCC (Australia) or OSH (New Zealand).

ENGINEERING MEASURES :

General ventilation is recommended.

PERSONAL PROTECTION

RESPIRATORY PROTECTION :

Respiratory protection is not normally needed.

HAND PROTECTION :

Neoprene gloves Nitrile gloves Butyl gloves PVC gloves

SKIN PROTECTION :

Wear standard protective clothing.

EYE PROTECTION :

Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Hazy Light yellow Amber
ODOR	Slight
pH (100 %)	4 - 6
VAPOR PRESSURE	No data available.
VAPOR DENSITY	No data available.
SPECIFIC GRAVITY	1.03 - 1.045 (23 °C) ASTM D-1298
DENSITY	No data available.
SOLUBILITY IN WATER	Complete
VISCOSITY	300 - 700 cps (23 °C)
MELTING POINT	No data available.
BOILING POINT	No data available.
FLASH POINT	Not flammable
LOWER EXPLOSION LIMIT	No data available.
UPPER EXPLOSION LIMIT	No data available.
AUTOIGNITION TEMPERATURE	No data available.

Note: These physical properties are typical values for this product and are subject to change.

SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

10. STABILITY AND REACTIVITY

STABILITY :

Stable under normal conditions.

CONDITIONS TO AVOID :

Freezing temperatures.

INCOMPATIBLE MATERIALS :

None known

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: None known

HAZARDOUS REACTIONS :

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION**OVERVIEW OF HEALTH HAZARDS**

ACUTE HAZARDS - EYE CONTACT

Can cause mild irritation.

ACUTE HAZARDS - SKIN CONTACT

May cause irritation with prolonged contact.

ACUTE HAZARDS - INGESTION

Not a likely route of exposure. May cause gastrointestinal irritation.

ACUTE HAZARDS - INHALATION

Not a likely route of exposure. No adverse effects expected.

CHRONIC HAZARDS :

No adverse effects expected other than those mentioned above.

SUMMARY OF TOXICITY INFORMATION

ACUTE TOXICITY DATA :

No toxicity studies have been conducted on this product.

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 2 and 12.

HUMAN HAZARD CHARACTERIZATION

Based on our hazard characterization, the potential human hazard is: Low

SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

MOBILITY AND BIOACCUMULATION POTENTIAL :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	30 - 50%	50 - 70%

The portion in water is expected to be soluble or dispersible.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

13. DISPOSAL CONSIDERATIONS

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage.

Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION :

No additional special precautions have been identified.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION

SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION**15. REGULATORY INFORMATION****AUSTRALIA :**

NICNAS

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

SUSDP SCHEDULE :

Not Listed

INTERNATIONAL CHEMICAL CONTROL LAWS

CANADA :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

EUROPE

The substance(s) in this preparation are included in or exempted from the EINECS or ELINCS inventories

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

NEW ZEALAND

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures

SAFETY DATA SHEET

PRODUCT

NALCOAG® 3268

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

Prepared By: Nalco Asia Pacific, Safety, Health and Environment (SHE) Specialist, (02) 9392 3566

SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATIONPRODUCT NAME : **HI-TEX 82230**COMPANY IDENTIFICATION :
Nalco Australia Pty Ltd
2 Anderson Street
Botany N.S.W. 2019
Australia
A.B.N. 41 000 424 788
TEL: +61 2 9392 3500
FAX: +61 2 9666 5292EMERGENCY TELEPHONE NUMBER(S) : 1800 205 506
International: +65 6542 9595 Free call: +800 2537 8747Date issued : 11.07.2011
Version Number : 1.3**2. HAZARDS IDENTIFICATION**

HAZARD CLASSIFICATION :

Not classified as hazardous according to the Australian Safety & Compensation Council (ASCC). This product is not classified as a dangerous good according to national or international regulations.

SAFETY PHRASES
S24/25 - Avoid contact with skin and eyes.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NO	% (w/w)
Ingredients determined not to be hazardous		100

4. FIRST AID MEASURESEYE CONTACT :
Wipe or blot away excess material with clean cloth or paper towel. Wash affected areas thoroughly with water. Get medical attention.SKIN CONTACT :
Wipe or blot away excess material with clean cloth or paper towel. Wash affected areas thoroughly with water. If symptoms develop, seek medical advice.INGESTION :
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water. Get medical attention. Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).

SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**INHALATION :**

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : Not flammable

EXTINGUISHING MEDIA :

Foam, Carbon dioxide, Dry powder, Other extinguishing agent suitable for Class B fires, For large fires, use water spray or fog, thoroughly drenching the burning material.

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire. Water mist may be used to cool closed containers.

UNSUITABLE EXTINGUISHING MEDIA :

Do not use water unless flooding amounts are available.

FIRE AND EXPLOSION HAZARD :

Phase separation of the product may occur after prolonged storage. The top phase will be combustible hydrocarbon solvent. Water in contact with the product will cause slippery floor conditions. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. May evolve oxides of carbon (CO_x) under fire conditions. May evolve oxides of nitrogen (NO_x) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS :**

Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities. Spill may be slippery.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Water in contact with the product will create a voluminous, slippery gel. Soak up as thoroughly as possible with inert absorbent material or sawdust. Do NOT hose down area until all possible traces of polymer are removed. Clean up promptly by scoop or vacuum. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**ENVIRONMENTAL PRECAUTIONS :**

Do not contaminate surface water., Spilled product may pose a risk to the aquatic ecosystem if released., Prevent material from entering sewers or waterways.

7. HANDLING AND STORAGE**HANDLING :**

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Stir well prior to use.

STORAGE CONDITIONS :

Store in suitable labeled containers. Store the containers tightly closed. Store separately from oxidizers.

SUITABLE CONSTRUCTION MATERIAL :

Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.,

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**OCCUPATIONAL EXPOSURE LIMITS**

This product does not contain any substance that has an established exposure limit.

ENGINEERING MEASURES :

General ventilation is recommended. Use local exhaust ventilation if necessary to control airborne mist and vapor.

PERSONAL PROTECTION**RESPIRATORY PROTECTION :**

If significant mists, vapours or aerosols are generated an approved respirator is recommended, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716. An organic vapor cartridge with dust/mist prefilter or supplied air may be used. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :

PVC gloves

SKIN PROTECTION :

Wear standard protective clothing. See general advice.

EYE PROTECTION :

Wear safety glasses with side-shields.

HYGIENE RECOMMENDATIONS :

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE	Viscous liquid
APPEARANCE	Opaque Off-white
ODOR	Hydrocarbon
pH	No data available.
VAPOR PRESSURE	No data available.
VAPOR DENSITY	No data available.
SPECIFIC GRAVITY	1.09
DENSITY	No data available.
SOLUBILITY IN WATER	Emulsifiable
MELTING POINT	No data available.
BOILING POINT	No data available.
FLASH POINT	Not flammable
LOWER EXPLOSION LIMIT	No data available.
UPPER EXPLOSION LIMIT	No data available.
AUTOIGNITION TEMPERATURE	No data available.

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY**STABILITY :**

Stable under normal conditions.

CONDITIONS TO AVOID :

Freezing temperatures. Avoid temperatures below 0 and above 93 degrees C which will cause polymer to precipitate.

INCOMPATIBLE MATERIALS :

Addition of water results in gelling. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon, Oxides of nitrogen

HAZARDOUS REACTIONS :

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION**OVERVIEW OF HEALTH HAZARDS****ACUTE HAZARDS - EYE CONTACT**

Can cause mild irritation.

ACUTE HAZARDS - SKIN CONTACT

May cause irritation with prolonged contact.

ACUTE HAZARDS - INGESTION

SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

Not a likely route of exposure. There may be irritation to the gastro-intestinal tract with nausea and vomiting. If swallowed a jelly mass may form which in digestion may cause blockage. Can cause chemical pneumonia if aspirated into lungs following ingestion.

ACUTE HAZARDS - INHALATION

Not a likely route of exposure. Product mist or vapors may cause headache, nausea, vomiting, drowsiness, stupor or unconsciousness.

SUMMARY OF TOXICITY INFORMATION**ACUTE TOXICITY DATA :**

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 2 and 12.

HUMAN HAZARD CHARACTERIZATION

Based on our hazard characterization, the potential human hazard is: Low

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL EFFECTS :**

The tests for (products or similar products) were performed in clean water as set forth by USEPA (EPA/600/4-90/027). In order to evaluate the potential toxicity mitigation, the tests for (representative polymers) were performed in environmentally relevant water with dissolved organic carbon (DOC: 4.5 mg/l). The toxicity of this product is due to an external mode of action, e.g., suffocation or immobilization. In the presence of suspended material, e.g., DOC, the polymers are bound to suspended material and the bioavailability is substantially reduced. As a result, the toxicity is expected to be lower. Under normal use and discharge conditions, the LC50 values of the representative polymers tested in the presence of DOC are expected to apply to this product. However, for large spills, the clean water data is more applicable.

MOBILITY AND BIOACCUMULATION POTENTIAL :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
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SAFETY DATA SHEET
PRODUCT
HI-TEX 82230
EMERGENCY TELEPHONE NUMBER(S)
1800 205 506

<5%	10 - 30%	70 - 90%
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The portion in water is expected to be soluble or dispersible.

This preparation or material is not expected to bioaccumulate.

PERSISTENCY AND DEGRADATION :

The organic portion of this preparation is expected to be poorly biodegradable.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Moderate

13. DISPOSAL CONSIDERATIONS

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage.

Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION :

No additional special precautions have been identified.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION

15. REGULATORY INFORMATION
AUSTRALIA :
NICNAS

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

SUSDP SCHEDULE :

Not Listed

INTERNATIONAL CHEMICAL CONTROL LAWS

UNITED STATES :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADA :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on the Inventory of Existing Chemical Substances China (IECSC).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

NEW ZEALAND

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.



SAFETY DATA SHEET

PRODUCT

HI-TEX 82230

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version),
Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH,
(TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

Prepared By: Nalco Asia Pacific, Safety, Health and Environment (SHE) Specialist, (02) 9392 3566

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME : **SCALE-GUARD® 84614**

APPLICATION : ANTISCALANT

COMPANY IDENTIFICATION :
Nalco Australia Pty Ltd
2 Anderson Street
Botany N.S.W. 2019
Australia
A.B.N. 41 000 424 788
TEL: +61 2 9316 3000
FAX: +61 2 9666 5292

EMERGENCY TELEPHONE NUMBER(S) : 1800 205 506

Date issued : 11.06.2009

Version Number : 1.2

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION :

Not classified as hazardous according to the Australian Safety & Compensation Council (ASCC). This product is not classified as a dangerous good according to national or international regulations.

SAFETY PHRASES

S24/25 - Avoid contact with skin and eyes.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO	% (w/w)
Sodium Bisulfite	7631-90-5	5 - 10

The balance of the substances in this product are not classified as hazardous or are present below hazard cut-off limits

4. FIRST AID MEASURES

EYE CONTACT :

Immediately flush eye with water for at least 15 minutes while holding eyelids open. If symptoms develop, seek medical advice.

SKIN CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**INGESTION :**

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. Get medical attention.

INHALATION :

Remove to fresh air, treat symptomatically. If breathing is difficult, administer oxygen. Get medical attention.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : Not flammable

EXTINGUISHING MEDIA :

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

May evolve oxides of carbon (CO_x) under fire conditions. May evolve oxides of sulfur (SO_x) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS :**

Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Do not touch spilled material.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.

7. HANDLING AND STORAGE**HANDLING :**

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled.

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

STORAGE CONDITIONS :

Store in suitable labeled containers. Store the containers tightly closed. Store separately from oxidizers. Amine and sulphite products should not be stored within close proximity or resulting vapors may form visible airborne particles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

The following component(s) have been assigned an exposure standard by ASCC (Australia) and/or other Agencies:

Country/Source	Substance(s)	Category:	ppm	mg/m3
AUSTRALIA	Sodium Bisulfite	TWA		5
USA	Sodium Bisulfite	ACGIH/TWA		5

* A skin notation refers to the potential significant contribution to overall exposure by the cutaneous route, including mucous membranes and the eyes.

MONITORING MEASURES :

A small volume of air is drawn through an absorbant or barrier to trap the substance(s) which can then be desorbed or removed and analyzed as referenced below:

Substance(s)	Method	Analysis	Absorbant
Sodium Bisulfite	US OSHA: 121	Ion chromatography	Cellulose ester filter

ENGINEERING MEASURES :

General ventilation is recommended. Use local exhaust ventilation if necessary to control airborne mist and vapor.

PERSONAL PROTECTION

GENERAL ADVICE :

The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields.

RESPIRATORY PROTECTION :

Respiratory protection is not normally needed. If significant mists, vapours or aerosols are generated an approved respirator is recommended, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716. An organic vapor cartridge with dust/mist prefilter may be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used.

HAND PROTECTION :

PVC gloves Neoprene gloves Nitrile gloves Butyl gloves

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**SKIN PROTECTION :**

Wear standard protective clothing.

EYE PROTECTION :

Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :

Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Straw-colored
ODOR	No data available.
pH (100 %)	4 - 6
VAPOR PRESSURE	No data available.
VAPOR DENSITY	No data available.
SPECIFIC GRAVITY	1.24 - 1.28 (25.0 °C)
DENSITY	No data available.
SOLUBILITY IN WATER	Complete
VISCOSITY	121 - 324 cst (22.7 °C)
MELTING POINT	No data available.
BOILING POINT	No data available.
FLASH POINT	Not flammable
LOWER EXPLOSION LIMIT	No data available.
UPPER EXPLOSION LIMIT	No data available.
AUTOIGNITION TEMPERATURE	No data available.

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY**STABILITY :**

Stable under normal conditions.

CONDITIONS TO AVOID :

Avoid extremes of temperature.

INCOMPATIBLE MATERIALS :

Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon, Oxides of sulfur

HAZARDOUS REACTIONS :

Hazardous polymerization will not occur.

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506**11. TOXICOLOGICAL INFORMATION****OVERVIEW OF HEALTH HAZARDS**

ACUTE HAZARDS - EYE CONTACT
Can cause mild irritation.

ACUTE HAZARDS - SKIN CONTACT
May cause irritation with prolonged contact.

ACUTE HAZARDS - INGESTION
Not a likely route of exposure. May cause asthmatic-like attack.

ACUTE HAZARDS - INHALATION
Not a likely route of exposure. Contains Sulfite. Causes asthmatic signs and symptoms in hyper-reactive individuals.

CHRONIC HAZARDS :
Ingestion of sulfite can cause a severe allergic reaction in asthmatics and some sulfite sensitive individuals. The resulting symptoms can include difficulty in breathing, flushed skin and a rash.

SUMMARY OF TOXICITY INFORMATION

ACUTE TOXICITY DATA :
No toxicity studies have been conducted on this product.

SENSITIZATION :
Sulfites can cause an allergic reaction in sensitive individuals.

CARCINOGENICITY :
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 2 and 12.

HUMAN HAZARD CHARACTERIZATION
Based on our hazard characterization, the potential human hazard is: Low

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

MOBILITY AND BIOACCUMULATION POTENTIAL :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	70 - 90%

The portion in water is expected to be soluble or dispersible.

This preparation or material is not expected to bioaccumulate.

PERSISTENCY AND DEGRADATION :

The organic portion of this preparation is expected to be poorly biodegradable.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low, (This hazard characterization is based on the impact of the product on pristine receiving waters. This enables the end user to assess the "worst case scenario" in a risk assessment.)

OTHER INFORMATION

The hazard characterization is based on the tests or potential hazard in the clean water.

13. DISPOSAL CONSIDERATIONS

Dispose of wastes in an approved waste treatment / disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage.

Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION :

No additional special precautions have been identified.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION**15. REGULATORY INFORMATION****AUSTRALIA :**

NICNAS

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

SUSDP SCHEDULE :

Not Listed

INTERNATIONAL CHEMICAL CONTROL LAWS

UNITED STATES :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADA :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on the Inventory of Existing Chemical Substances China (IECSC).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

SAFETY DATA SHEET

PRODUCT

SCALE-GUARD® 84614

EMERGENCY TELEPHONE NUMBER(S)

1800 205 506

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

Prepared By: Nalco Asia Pacific, Safety, Health and Environment (SHE) Specialist, (02) 9316 3162