

ANDEROL FGCS-2

rsion	Revision Date: 04.10.2022	SDS Number: 000000031579	Date of last issue: 18.08.2022 Date of first issue: 05.09.2019
CTION	1. PRODUCT AND C	OMPANY IDENTIFIC	ATION
Produ	ict name:	ANDEROL F	GCS-2
Prod	uct Use Description:	Lubricant	
Syno	nyms:	Calcium Su	lfonate grease
Comp	pany:	Groot Egtenr 5928 PA Ver Netherlands	cialty Lubricants ayseweg 23
		5 Comserv C West Gosfor Australia	blutions Australia Pty.Ltd. l d, NSW 2250 +61 2 4311 9109
Emer ber:	gency telephone num-	1800 862 115	(CCN1001750)
Prepa	ared by:	<u>Product Safe</u> (US) +1 866-	<u>ty Department</u> 430-2775
		MSDSReque	st@lanxess.com
<u>Reco</u>	mmended use of the c	hemical and restriction	ns on use:
	mmended use: rictions on use:	Lubricant For industria	l use only.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.



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Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5	>= 60 -<= 100
calcium carbonate	471-34-1	< 10
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	< 10
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	< 10
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 1 -< 10
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 -< 2.5
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	>= 0.25 -< 2.5
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 1 -< 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	< 1

Remaining ingredients not hazardous up to 100%.

SECTION 4. FIRST AID MEASURES

General advice	:	For advice, contact a Poisons Information Centre (Phone: Australia 131 126 or New Zealand 0800 764 766) or a doctor at once.
If inhaled	:	Remove to fresh air. Aspiration may cause pulmonary oedema and pneumonitis. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with warm water and soap. If skin irritation persists, call a physician.
In case of eye contact	:	
If swallowed	:	Obtain medical attention. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	irritant effects
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	

SECTION 5. FIREFIGHTING MEASURES



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Suita	ble extinguishing media	:	(on small fires) Carbon dioxide (C Dry chemical Dry sand Extinguishing med Foam Water mist	
Unsu medi	iitable extinguishing a	:	High volume wate	er jet
	Specific hazards during fire- fighting		fire. Burning produces	l water stream as it may scatter and spread irritant fumes. mposition products may be a hazard to
Spec ods	ific extinguishing meth-	:	Cool containers/ta	anks with water spray.
•	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. active equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Wear suitable protective equipment.
Environmental precautions	:	Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Scrape up. Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Wear suitable protective equipment. Keep tightly closed. Protect from contamination.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
Conditions for safe storage	:	Keep tightly closed in a dry, cool and well-ventilated place. Protect from contamination.
Further information on stor- age conditions	:	Keep away from oxidizing agents.
Further information on stor- age stability	:	Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Comp	oonents	CAS-No.	Value type	Control parame-	Basis
			(Form of exposure)	ters / Permissible concentration	
White	mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m3	AU OEL
calciu	im carbonate	471-34-1	TWA	10 mg/m3 (Calcium car- bonate)	AU OEL
		asbestos and	< 1% crystalline	e is for inspirable dus silica (see Chapter 1	4)
lytic d	fin oils (petroleum), cata- lewaxed heavy	64742-70-7	TWA (Mist)	5 mg/m3	AU OEL
	ates (petroleum), solvent- xed heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m3	AU OEL
Engiı	neering measures		eyewash station: ation location.	s and safety showers	are close
Perso	onal protective equipmen	t			
	iratory protection :	quired.	f dust or aeroso	ective equipment norr I formation use respir	•
	protection				
Ma	aterial :	Neoprene glo	oves		
Re	emarks :	cation of deg moving glove information o supplier.	radation or cher es clean them wi n glove permea	and replaced if there nical breakthrough. B th soap and water. R tion properties from th	efore re- equest
Eye p	protection :	or	es with side-shie safety goggles	elds	
		Impervious c			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: tan
Odour	: mild, hydrocarbon-like
Odour Threshold	: No data available
рН	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 180 °C
	Method: open cup
Evaporation rate	: Not applicable



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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	0.95 - 1.05 (25 °C	C)
	Solubili Wat	ty(ies) er solubility	:	negligible	
	Solu	bility in other solvents	:	partly soluble	
	Partitio	n coefficient: n-	:	No data available	
		nition temperature	:	not determined	
		celerating decomposi- perature (SADT) tv	:	Method: No infor	mation available.
		osity, kinematic	:	Not applicable	
	Oxidizir	ng potential	:	No information av	vailable.

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use. Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Contamination Oxidizing agents Carbon oxides Sulphur oxides Oxides of calcium

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product:	
Acute oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
<u>Components:</u>	
calcium carbonate:	
Acute oral toxicity	: LD50 (Rat): 6,450 mg/kg



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calciu	ım dodecylbenzene	sulphonate:			
Acute	oral toxicity	: LD50 Oral (Ra	at): 1,300 mg/kg		
Acute	dermal toxicity	Remarks: Info	LD50 (Rabbit): > 4,199 mg/kg Remarks: Information given is based on data obtained from similar substances.		
Benze	enamine, N-phenyl-	reaction products v	vith 2,4,4-trimethylpentene:		
Acute	oral toxicity	: LD50 (Rat): > Method: OEC	5,000 mg/kg D Test Guideline 401		
Acute	dermal toxicity	Assessment: toxicity	LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute derm toxicity Remarks: No mortality observed at this dose.		
Sulfo	nic acids, petroleun	n, calcium salts:			
	oral toxicity	: LD50 (Rat, m	ale and female): > 5,000 mg/kg D Test Guideline 401		
Acute	dermal toxicity	Method: OEC Assessment: toxicity	 LD50 (Rabbit, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derr toxicity Remarks: No mortality observed at this dose. 		
Skin	corrosion/irritation				
Produ	uct:				
Resul Rema	t		No skin irritation Information given is based on data obtained from similar s stances.		
<u>Comp</u>	oonents:				
calciu	um carbonate:				
Speci Resul		: Rabbit : No skin irritati	on		
calciu	ım dodecylbenzene	sulphonate:			
Speci	es	: Rabbit			
Expos	sure time	: 4 h			
Resul Rema	•	: Skin irritation : Information gi stances.	ven is based on data obtained from similar s		
		reaction producto y	vith 2,4,4-trimethylpentene:		
Benze	enamine. N-phenvi-	reaction broducts v			



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Metho Resul		: OECD Test Guideline 404 : Mild skin irritation
Resu	it.	
Serio	us eye damage/eye	irritation
<u>Produ</u>	uct:	
Resul		: No eye irritation
Rema	arks	: Information given is based on data obtained from similar su stances.
Comp	oonents:	
calciu	um carbonate:	
Speci	es	: Rabbit
Resul		: No eye irritation
calciu	um dodecylbenzene	esulphonate:
Speci		: Rabbit
Resul	•	: Risk of serious damage to eyes.
Rema	arks	: Information given is based on data obtained from similar su stances.
Benzo	enamine, N-phenyl-	-, reaction products with 2,4,4-trimethylpentene:
Speci		: Rabbit
Resul		: No eye irritation
Metho	bd	: OECD Test Guideline 405
Resp	iratory or skin sens	sitisation
<u>Produ</u>	uct:	
	lt	: Does not cause skin sensitisation.
Resul	•	
Resul Rema	-	 Information given is based on data obtained from similar su stances.
Rema	-	: Information given is based on data obtained from similar su
Rema	oonents:	: Information given is based on data obtained from similar su
Rema	onents: enesulfonic acid, C [.]	: Information given is based on data obtained from similar su stances.
Rema Comr Benz Resul	o <mark>onents:</mark> enesulfonic acid, C ^a	 Information given is based on data obtained from similar sustances. 10-16-alkyl derivs., calcium salts: Probability or evidence of low to moderate skin sensitisatio
Rema Comr Benz Resul	enesulfonic acid, C [.] t enamine, N-phenyl-	 Information given is based on data obtained from similar sustances. 10-16-alkyl derivs., calcium salts: Probability or evidence of low to moderate skin sensitisatio rate in humans
Rema Comp Benzo Resul Benzo Speci Asses	o <mark>onents:</mark> enesulfonic acid, C ⁻ It enamine, N-phenyl- es ssment	 Information given is based on data obtained from similar sustances. 10-16-alkyl derivs., calcium salts: Probability or evidence of low to moderate skin sensitisatio rate in humans , reaction products with 2,4,4-trimethylpentene: Guinea pig Did not cause sensitisation on laboratory animals.
Rema Comp Benze Resul Benze Speci	o <mark>onents:</mark> enesulfonic acid, C ⁻ It enamine, N-phenyl- es ssment	 Information given is based on data obtained from similar su stances. 10-16-alkyl derivs., calcium salts: Probability or evidence of low to moderate skin sensitisatio rate in humans , reaction products with 2,4,4-trimethylpentene: Guinea pig
Rema Comp Benze Resul Benze Speci Asses Metho	o <mark>onents:</mark> enesulfonic acid, C ⁻ It enamine, N-phenyl- es ssment	 Information given is based on data obtained from similar sustances. 10-16-alkyl derivs., calcium salts: Probability or evidence of low to moderate skin sensitisatio rate in humans , reaction products with 2,4,4-trimethylpentene: Guinea pig Did not cause sensitisation on laboratory animals. OECD Test Guideline 406



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	Benze Result	nesulfonic acid, mon	-	a., calcium salts: dence of low to moderate skin sensitisation
	Chron	ic toxicity		
	Germ	cell mutagenicity		
	Comp	onents:		
		cell mutagenicity -	-	2,4,4-trimethylpentene: Ames Test
	Repro	ductive toxicity		
	Comp	onents:		
		m carbonate: ductive toxicity - As- ent	: No toxicity to rep No effects on or v	
	Benze	namine, N-phenyl-, re	action products with	2,4,4-trimethylpentene:
	Effects	on fertility	Species: Rat, ma Application Route Dose: 25-75-225 General Toxicity Fertility: NOEL: 2 Method: OECD T	
			Species: Rat, ma Strain: wistar Application Route Dose: 0-200-600 Method: OECD T	e: Ingestion -1800 parts per million Fest Guideline 443 dence of adverse effects on development, experiments.
	Effects ment	on foetal develop-	Species: Rabbit, Application Route Dose: 10-30-100 General Toxicity Teratogenicity: N Developmental T Method: OECD T Result: Embryoto	



ersion .3	Revision Date: 04.10.2022	SDS Number: 000000031579	Date of last issue: 18.08.2022 Date of first issue: 05.09.2019
		Species: Rat, fe Application Rou Dose: 50-150-5 General Toxicit Teratogenicity: Developmental	ite: Oral 00 milligram per kilogram y Maternal: NOAEL: 150 mg/kg bw/day NOAEL: 500 mg/kg bw/day Toxicity: NOAEL: 500 mg/kg body weight Test Guideline 414
Reproc sessm	ductive toxicity - As- ent		of adverse effects on sexual function and on animal experiments.
Aspira	tion toxicity		
Produ	<u>ct:</u>		
	biration toxicity classifica	ation	
Furthe	er information		
Produ	<u>ct:</u>		
Remar	ks	: There is no data	a available for this product.
<u>Produ</u>			
IOXICIT	y to fish	: Remarks: No da	ata is available on the product itself.
	y to daphnia and other c invertebrates		ata is available on the product itself.
<u>Comp</u>	onents:		
calciu	m dodecylbenzenesul	phonate:	
Toxicit	y to fish	Exposure time: Test Type: stati Analytical moni Method: OECD GLP: no	c test toring: no Test Guideline 203 nation given is based on data obtained from
	y to daphnia and other c invertebrates	Exposure time: Test Type: stati Method: OECD	
		GLP: no	



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			Remarks: Informa similar substance	tion given is based on data obtained from s.
	izenamine, N-phenyl-, re	acti :	-	(zebra fish)): > 100 mg/l ty est est ing: yes est Guideline 203
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m End point: Immob Exposure time: 48 Test Type: static t Analytical monitor Method: OECD Te GLP: yes Remarks: Fresh w	8 h est ing: yes est Guideline 202
Tox plar	icity to algae/aquatic its	:	EbC50 (Desmode mg/l End point: Growth Exposure time: 72 Test Type: static t Analytical monitor Method: OECD Te GLP: no Remarks: Fresh w	? h est ing: no est Guideline 201
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)	:	EL10 (Daphnia m Exposure time: 21 Analytical monitor Method: OECD To GLP: yes Remarks: Fresh w	ing: no est Guideline 211
Eco	toxicology Assessment			
Chro	onic aquatic toxicity	:	No toxicity at the l ecotoxicological e	imit of solubility, This product has no known ffects.
Sulf	fonic acids, petroleum, c	alc	ium salts:	
Тох	icity to fish	:	LC50 (Cyprinodor 10,000 mg/l Exposure time: 96 Test Type: static t Method: OECD Te GLP: yes	est
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l s h



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			Test Type: static t Method: OECD To GLP: yes	
Toxicity to algae/aquatic plants		:	ErC50 (Green algae (Scenedesmus subspicatus)): > 100 End point: Growth rate Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes	
Persistend	e and degradabil	ity		
Product:				
Biodegrada	ability	:	Result: No data a	vailable
<u>Componer</u>	<u>nts:</u>			
calcium do	odecylbenzenesu	lpho	onate:	
Biodegrada	ability	:	Result: Readily bi Testing period: 2 Kinetic: 28 d: 73 %	odegradable. 8 d Ition given is based on data obtained from
Benzenam	ine, N-phenyl-, re	act	ion products with	2,4,4-trimethylpentene:
Biodegrada	ability	:		to the results of tests of biodegradability thi dily biodegradable. lution Test
Sulfonic a	cids, petroleum, o	calc	ium salts:	
Biodegrada	ability	:	aerobic Inoculum: activate Result: Not readil Biodegradation: 8 Exposure time: 28 GLP: yes	y biodegradable. 3.6 %
Bioaccum	ulative potential			
Product:				
Bioaccumu	lation	:	Remarks: No data	a available
<u>Componer</u>	<u>nts:</u>			
calcium do	odecylbenzenesu	lpho	onate:	
Bioaccumu	lation	:	Species: Lepomis Bioconcentration Exposure time: 27	
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			GLP: no			
Partition coefficient: n- octanol/water		:	: Pow: 4.77 (25 °C) Method: Calculated value			
Benz	enamine, N-phenyl-, r	eact	ion products witl	n 2,4,4-trimethylpentene:		
Partition coefficient: n- octanol/water		:	log Pow: > 7			
Mobi	lity in soil					
Prod	uct:					
Mobility		:	Remarks: No da	ta available		
Othe	r adverse effects					
Produ	uct:					
Additi matio	0	:	There is no data	available for this product.		

Disposal methods

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number Proper shipping name Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable Not applicable



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Packing group Labels EmS Code Marine pollutant		 Not applicable Not applicable Not applicable Not applicable 		
	sport in bulk accordin pplicable for product as	•	OL 73/78 and the IBC Code	
Natio	onal Regulations			
Prop Clas Subs Pack Labe Hazo	number per shipping name s sidiary risk king group	 Not applicable 		
-	pplicable			
Safet ture Stand	dard for the Uniform duling of Medicines and	mental regulations/leg	jislation specific for the substance or m	
	national Chemical Wea dules of Toxic Chemica	oons Convention (CWC als and Precursors) : Neither banned nor restricted	
Prohi	bition/Licensing Requir	ements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino	

The components of this pro DSL	du :	ct are reported in the following inventories: All components of this product are on the Canadian DSL
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory

tions.



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IECSC		: On the invento	ory, or in compliance with the inventory
TCSI		: On the invento	ory, or in compliance with the inventory
US.TSCA		: On TSCA Inve	entory

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

SECTION 16. OTHER INFORMATION

Revision Date Date format	-	04.10.2022 dd.mm.yyyy		
Full text of other abbreviations				
AU OEL	:	Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment		
AU OEL / TWA	:	Exposure standard - time weighted average		

AIIC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System





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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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