

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 01/27/2021

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

**Product identifier** 

Product form : Mixture

: Road Choice Extended Life NF 50/50 Prediluted Antifreeze and Coolant Product name

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Antifreeze & Coolant

Details of the supplier of the safety data sheet

Old World Industries, LLC 3100 Sanders Road Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com

1.4. **Emergency telephone number** 

**Emergency number** : 800 424 9300 (United States); 00 1 703 527 3887 (International)

Chemtrec

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### **GHS-US** classification

Acute toxicity (oral), H302 Harmful if swallowed.

Category 4

Reproductive toxicity, H361 Category 2

Specific target organ H373

toxicity — Repeated exposure, Category 2

Full text of H-statements: see section 16

Suspected of damaging fertility or the unborn child.

May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

#### **Label elements**

#### GHS US labelling

Hazard pictograms (GHS US)



GHS07

GHS08

Signal word (GHS US) : Warning

Hazard statements (GHS US) Harmful if swallowed.

Suspected of damaging fertility or the unborn child.

May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements (GHS US) Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist, spray, vapors

Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wear personal protective equipment as required. If swallowed: rinse mouth. Do NOT induce vomiting.

If swallowed: Immediately call a doctor, a POISON CENTER.

If inhaled. Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container to appropriate waste disposal facility, in accordance with

local/regional/national/international regulations.

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#### 2.3. Other hazards

#### 2.4. Unknown acute toxicity (GHS US)

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS-No.) 107-21-1	≤ 50	Acute Tox. 4 (Oral), H302
water	(CAS-No.) 7732-18-5	< 50	Not classified
diethylene glycol	(CAS-No.) 111-46-6	< 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
potassium 2-ethylhexanoate	(CAS-No.) 3164-85-0	0 – 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361
sodium 2-ethylhexanoate	(CAS-No.) 19766-89-3	0 – 3	Repr. 2, H361
denatonium benzoate	(CAS-No.) 3734-33-6	0.003 - 0.005 [30 - 50 ppm]	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First aid measures**

41	Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice.

First-aid measures after skin contact

: Remove contaminated clothing. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes), Get medical advice/attention.

First-aid measures after eye contact

: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Get medical advice and attention

First-aid measures after ingestion

Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

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

Symptoms/effects

: Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.

Symptoms/effects after skin contact

: Repeated or prolonged skin contact may cause irritation.

Symptoms/effects after eye contact

: Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion

: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

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

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media
Unsuitable extinguishing media

: Water fog. Fine water spray. Foam. Carbon dioxide. Dry chemical powder. Sand.

: Do not use a heavy water stream. May spread fire.

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

Fire hazard During a fire, smoke m

: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Product is not flammable or combustible

but may burn under fire conditions.

Reactivity : No dangerous reactions known under normal conditions of use.

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Refer to section 8.2.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and

shovel into container for disposal. Store away from other materials.

#### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after

handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources,

Direct sunlight. Keep container closed when not in use. Product may become solid at temperatures below -37 °C (-34 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty.

Incompatible products : Keep away from strong acids, strong bases and oxidizing agents.

Incompatible materials : Sources of ignition.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

denatonium benzoate (3734-33-6)		
Not applicable		
ethylene glycol (107-21-1)		
ACGIH	Local name	Ethylene glycol

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ethylene glycol (107-21-1)		
ACGIH	ACGIH OEL TWA	10 mg/m³
ACGIH	ACGIH OEL TWA [ppm]	25 ppm (Vapor fraction)
ACGIH	ACGIH OEL STEL	10 mg/m³ (Inhalable fraction, Aerosol only)
ACGIH	ACGIH OEL STEL [ppm]	50 ppm (Vapor fraction)
ACGIH	Remark (ACGIH)	Upper respiratory tract & eye irritant
ACGIH	Regulatory reference	ACGIH 2018
diethylene glycol (111-46-6)		

Not applicable

#### water (7732-18-5)

Not applicable

#### potassium 2-ethylhexanoate (3164-85-0)

Not applicable

#### sodium 2-ethylhexanoate (19766-89-3)

Not applicable

#### 8.2. **Appropriate engineering controls**

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

### Respiratory protection:

Respiratory protection not required in normal conditions. If exposed to levels above exposure limits wear appropriate respiratory protection.





#### Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

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

Physical state

Molecular mass : 62.07 g/mol Ethylene Glycol

: Red Color Odor : Mild

Odor threshold : No data available

: 8 Relative evaporation rate (butylacetate=1) : Nil

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Freezing point : -37 °C (-34 °F) Boiling point : 107 °C (224 °F)

Flash point : 116 °C (241 °F) [100% Ethylene Glycol] *ASTM D56*Auto-ignition temperature : 400 °C (752 °F) [100% Ethylene Glycol] *Literature* 

Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : < 0.1 @ 20 °C Relative vapor density at 20 °C : No data available

Specific Gravity : 1.06

Density : 1.06 kg/l (8.84 lbs/gal) : Water: Complete Solubility Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosive limits** : Not applicable Explosive properties : Not applicable. Oxidizing properties : Not applicable.

9.2. Other information

VOC content : 0 %

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Keep away from any flames or sparking source.

#### 10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume. alcohols. Aldehydes. Ethers.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Road Choice Extended Life NF 50/50 Prediluted Antifreeze and Coolant		
ATE US (oral)	500 mg/kg bodyweight	
denatonium benzoate (3734-33-6)		
LD50 oral rat	584 mg/kg (Rat, Literature study, Oral)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Literature study, Dermal)	
ATE US (oral)	584 mg/kg bodyweight	
ethylene glycol (107-21-1)		
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))	
LC50 Inhalation - Rat	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))	
ATE US (oral)	500 mg/kg bodyweight	

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diethylene glycol (111-46-6)	
LD50 oral rat	19600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	11890 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence)
ATE US (oral)	500 mg/kg bodyweight
ATE US (dermal)	11890 mg/kg bodyweight

Skin corrosion/irritation : Not classified

pH: 8

Serious eye damage/irritation : Not classified

pH: 8

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.

Symptoms/effects after skin contact : Repeated or prolonged skin contact may cause irritation. Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose

in humans is estimated to be 100 mL (3 oz).

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : No data available.

denatonium benzoate (3734-33-6)	
LC50 - Fish [1]	> 1,000.00 mg/l (96 h, Salmo gairdneri, Literature study)
EC50 - Crustacea [1]	13.00 mg/l (48 h, Daphnia magna, Literature study)
ethylene glycol (107-21-1)	
LC50 - Fish [1]	40,761.00 mg/l (96 h, Salmo gairdneri, Static system)
EC50 - Crustacea [1]	> 10,000.00 mg/l (24 h, Daphnia magna)
diethylene glycol (111-46-6)	
LC50 - Fish [1]	> 5,000.00 ppm (24 h, Carassius auratus)
EC50 - Crustacea [1]	> 10,000.00 mg/l (24 h, Daphnia magna)
LC50 - Fish [2]	75,200.00 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Experimental value)
EC50 - Crustacea [2]	> 10,000.00 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)

#### 12.2. Persistence and degradability

denatonium benzoate (3734-33-6)		
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.	
ethylene glycol (107-21-1)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	

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ethylene glycol (107-21-1)	
Biochemical oxygen demand (BOD)	0.47 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance
ThOD	1.29 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.36
diethylene glycol (111-46-6)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.51 g O <sub>2</sub> /g substance
ThOD	1.51 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.02

#### 12.3. Bioaccumulative potential

denatonium benzoate (3734-33-6)	
Partition coefficient n-octanol/water (Log Pow)	1.78 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
ethylene glycol (107-21-1)	
BCF - Fish [1]	10.00 (72 h, Leuciscus idus)
BCF - Other aquatic organisms [1]	0.21 – 0.60 (Procambarus sp., Chronic)
BCF - Other aquatic organisms [2]	190.00 (24 h, Algae)
Partition coefficient n-octanol/water (Log Pow)	-1.34 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.
diethylene glycol (111-46-6)	
BCF - Fish [1]	100.00 (Other, 3 day(s), Leuciscus melanotus, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-1.98 (Calculated, Other)
Bioaccumulative potential	Not bioaccumulative.

#### 12.4. Mobility in soil

denatonium benzoate (3734-33-6)		
Ecology - soil	No (test)data on mobility of the substance available.	
ethylene glycol (107-21-1)		
Surface tension	48.00 mN/m (20 °C)	
Ecology - soil	No (test)data on mobility of the substance available.	
diethylene glycol (111-46-6)		
Surface tension	0.05 N/m	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.00 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Ecology - soil	Highly mobile in soil.	

#### 12.5. Other adverse effects

Effect on the ozone layer : No known effect on the ozone layer

Effect on global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

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Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

#### Non Bulk (in quantities under 5,000 lbs in any one inner package):

Not regulated by the US DOT

#### Bulk (in quantities 5,000 lbs or over in any one inner package):

Transport document description (DOT) : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III

UN-No.(DOT) : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Quantity Limitations Passenger aircraft/rail : No limit

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Other information : No supplementary information available.

#### **Transportation of Dangerous Goods**

#### Refer to current TDG Canada for further Canadian regulations

#### Transport by sea

In accordance with IMDG / IMO

Not regulated in in quantities under 5,000 lbs in any one inner package

#### Air transport

In accordance with IATA / ICAO

Not regulated in in quantities under 5,000 lbs in any one inner package

#### **SECTION 15: Regulatory information**

15.1. US Federal regulations

Road Choice Extended Life NF 50/50 Prediluted Antifreeze and Coolant	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed

#### denatonium benzoate (3734-33-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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ethylene glycol (107-21-1)	ne glycol (107-21-1)		
Listed on the United States TSCA (Toxic Sub Subject to reporting requirements of United S			
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.		
CERCLA RQ	5000 lb(s)		
SARA Section 311/312 Hazard Classes	Refer to Section 2 for the OSHA hazard classification Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.		
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.		
diethylene glycol (111-46-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory			

#### water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### potassium 2-ethylhexanoate (3164-85-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### sodium 2-ethylhexanoate (19766-89-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

Road Choice Extended Life NF 50/50 Prediluted Antifreeze and Coolant		
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.	

#### water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

#### sodium 2-ethylhexanoate (19766-89-3)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.3. US State regulations



This product can expose you to ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

ethylene glycol (107	ethylene glycol (107-21-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)	
No	Yes	No	No		(ingested) 8,700 (oral) μg/day	

#### ethylene glycol (107-21-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### **SECTION 16: Other information**

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#### Full text of H-statements:

NFPA fire hazard

NFPA reactivity

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated
	exposure.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation

: 1 - Materials that must be preheated before ignition can occur.

: 0 - Material that in themselves are normally stable, even under fire conditions.



#### SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as the effects of such use, the results to be obtained or the safety and toxicity of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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