

SAFETY DATA SHEET

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

1.1. Product identifier

Product Name: STARFIRE ATF +4

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

Recommended use: Automatic Transmission Fluid

Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer: Coolants Plus, Inc.
2570 Van Hook Ave.
Hamilton, OH. 45015

Information Phone: +01 888-258-8723

1.4. Emergency telephone number

Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious Eye Damage/Eye Irritation Category 1

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1A

Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1

Skin Corrosion/Irritation Category 2

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2

Hazardous to the aquatic environment - Chronic Category 2

Acute Toxicity - Inhalation Gas Category 4

2.2. Label elements

GHS Hazard Symbols



Signal Word

Danger

Hazard Statements

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H332 - Harmful if inhaled.

H340 - May cause genetic defects..

H350 - May cause cancer.

H371 - May cause damage to organs.

H372 - Causes damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash exposed areas thoroughly after handling.

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Response

P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P281 - Use personal protective equipment as required.
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P310 - Immediately call a poison center/doctor/....
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P314 - Get medical advice/attention if you feel unwell.
 P321 - Specific treatment (see section 4).
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P362 - Take off contaminated clothing and wash before reuse.
 P391 - Collect spillage.
 P405 - Store locked up.
 P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

Storage Disposal

2.3. Other hazards

Hazards not otherwise classified:

Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients

Chemical Name	%	CAS #	GHS Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	90 - 99	72623-87-1	Acute Tox. 4; H332 Acute Tox. 3; H331
2-Naphthylamine	15 - 40	91-59-8	Aquatic Chronic 2; H411 Acute Tox. 4; H302 Carc. 1A; H350
Methanol	1 - 5	67-56-1	Acute Tox. 3; H311 Acute Tox. 3; H301 Acute Tox. 3; H331 Flam. Liq. 2; H225 STOT SE 1; H370
Sulfur Dioxide	1 - 5	7446-09-5	Acute Tox. 3; H331 Press. Gas (*); H280 Skin Corr. 1B; H314
Trimethyl phosphate	1 - 5	512-56-1	Acute Tox. 4; H302
Aniline	1 - 5	62-53-3	Acute Tox. 3; H311 Acute Tox. 3; H331 Acute Tox. 3; H331 Acute Tox. 3; H301 Acute Tox. 3; H331 Carc. 2; H351 Eye Dam. 1; H318 Muta. 2; H341 Skin Sens. 1; H317 STOT RE 1; H372
Benzene	0.1 - 1	71-43-2	Asp. Tox. 1; H304 Acute Tox. 4; H332 Acute Tox. 4; H302 Carc. 1A; H350

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SECTION 3: Composition/information on ingredients

Naphthalene	0.1 - 1	91-20-3	Eye Irrit. 2; H319 Flam. Liq. 2; H225 Muta. 1B; H340 Skin Irrit. 2; H315 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302 Carc. 2; H351 Flam. Sol. 1; H228
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Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately.
Eyes	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
Skin Contact	Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
Ingestion	Seek medical attention immediately or call the Poison control center. Do not induce vomiting. If patient is fully conscious, give up to two glasses of water. Provide medical care provider with this SDS.

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

Symptoms	Vomiting, Nausea, Headache, Dizziness, Drowsiness, Coughing, Mental confusion, Systemic effects similar to those resulting from ingestion, Temporary or permanent blindness, Muscle pains, Impaired vision
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4.3. Indication of any immediate medical attention and special treatment needed

Note to Doctor	No additional first aid information available.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
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5.2. Special hazards arising from the substance or mixture

Fire and/or Explosion Hazards	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
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5.3. Advice for firefighters

Fire Fighting Methods and Protection	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
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Hazardous Combustion Products	Carbon monoxide, Formaldehyde
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

6.2. Environmental precautions

Avoid runoff into storm sewers and ditches that lead to waterways.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. P391 - Collect spillage.

6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials

See Section 10.

7.3. Specific end use(s)

Automatic Transmission Fluid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OSHA PEL	5 mg/m ³
Sulfur dioxide	OSHA PEL	5 ppm TWA; 13 mg/m ³ TWA
Methyl alcohol	OSHA PEL	200 ppm TWA; 260 mg/m ³ TWA
Aniline	OSHA PEL	5 ppm TWA (including homologs); 19 mg/m ³ TWA (including homologs)
Benzene	OSHA PEL	10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA
Naphthalene	OSHA PEL	10 ppm TWA; 50 mg/m ³ TWA
Sulfur dioxide	OSHA STEL	5 ppm STEL; 13 mg/m ³ STEL
Methyl alcohol	OSHA STEL	250 ppm STEL; 325 mg/m ³ STEL
Benzene	OSHA STEL	1 ppm STEL
Naphthalene	OSHA STEL	15 ppm STEL; 75 mg/m ³ STEL
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACGIH TLV-TWA	5 mg/m ³
Methanol	ACGIH TLV-TWA	200 ppm TWA
Aniline	ACGIH TLV-TWA	2 ppm TWA
Benzene	ACGIH TLV-TWA	0.5 ppm TWA
Naphthalene	ACGIH TLV-TWA	10 ppm TWA
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACGIH STEL	10 mg/m ³
Sulfur dioxide	ACGIH STEL	0.25 ppm STEL
Methanol	ACGIH STEL	250 ppm STEL

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
Benzene	ACGIH STEL	2.5 ppm STEL
Naphthalene	ACGIH STEL	15 ppm STEL
Sulfur dioxide	IDLH	100 ppm IDLH
Methyl alcohol	IDLH	6000 ppm IDLH
Aniline	IDLH	100 ppm IDLH
Benzene	IDLH	500 ppm IDLH
Naphthalene	IDLH	250 ppm IDLH
Aniline	OSHA PEL-Skin Notation	prevent or reduce skin absorption
Methyl alcohol	OSHA STEL-Skin Notation	Potential for dermal absorption
Methanol	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route
Aniline	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route
Benzene	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route
Naphthalene	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route

8.2. Exposure controls

Engineering Measures

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection

Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels.

Respirator Type(s)

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available. An eye wash station must be available where this product is used.

Skin Protection

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves

Nitrile, Polyvinyl chloride, Impervious rubber

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Red
Odor	Mild
Odor threshold	Not determined
pH	Not determined
Freezing point	Not determined
Boiling Point	Not determined
Flash Point (°C)	195
Flash Point Method	COC
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	Not established
Lower Flammable/Explosive Limit, % in air	Not established

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Flammability (solid, gas)	Not applicable
Vapor pressure	Not determined
Vapor Density	1.1 4.42
Relative Density	0.85
Solubility in Water	Negligible; 0-1%
Octanol/Water Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity(°C)	35.22

9.2. Other information

Volatile organic compound (VOC) content and percentage of volatiles	0.000000
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SECTION 10: Stability and reactivity

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4. Conditions to avoid	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Visible light
10.5. Incompatible materials	Strong oxidizing agents, Strong acids, Peroxides, Hypochlorites, Acetic anhydride, Caustics (bases)
10.6. Hazardous decomposition products	Carbon monoxide, Formaldehyde

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity	No hazard in normal industrial use. Estimated to be > 5.0 g/kg.
Skin Contact	This material is estimated to be severely irritating (Primary Irritation Index is 6.0 - 6.5 [rabbits]). Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage.
Absorption	Likely to be practically non-toxic based on animal data.
Inhalation Toxicity	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact	This material is estimated to be severely irritating to eyes (Draize score is 50 - 80 [rabbits]). Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Sensitization	Non-hazardous under Respiratory Sensitization category. Contains a substance that may cause skin sensitization.
Mutagenicity	Mutagenic effects in humans may occur.
Carcinogenicity	Contains a known human carcinogen.
Reproductive and Developmental Toxicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Specific target organ toxicity-Single exposure	H371 - May cause damage to organs.
Specific target organ toxicity-Repeated exposure	H372 - Causes damage to organs through prolonged or repeated exposure.
Long-Term (Chronic) Health Effects	Drowsiness, Headache, Impaired vision, Circulatory failure, Abdominal pain, Skin rashes
Aspiration toxicity	Non-hazardous under Aspiration category.
Other information	No data available.

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Agents Classified by IARC Monographs

2-Naphthylamine	IARC Group 1
Benzene	IARC Group 1
Not applicable	IARC Group 2A
Naphthalene	IARC Group 2B

National Toxicity Program (NTP) Status

2-Naphthylamine	Known Human Carcinogen
Benzene	Known Human Carcinogen
Naphthalene	Reasonably Anticipated To Be A Human Carcinogen

SECTION 12: Ecological information

12.1. Toxicity

Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.

Chronic Aquatic ecotoxicity: H411 - Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Biodegrades quickly.

12.3. Bioaccumulative potential

Bioconcentration is not expected to occur.

12.4. Mobility in soil

This material is expected to have very high mobility in soil. It does not absorb to most soil types. This material is expected to evaporate quickly from surface soils and/or waters.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Disposal Code(s)

Waste Description for Spent Product

Spent or discarded material is not expected to be a hazardous waste.

Contaminated packaging:

Recycle containers whenever possible.

Containers of this material may be hazardous when emptied.

Recycle containers whenever possible.

SECTION 14: Transport information

DOT	Proper Shipping Name:	No data available.
	UN Number:	Not regulated for road transport
	Hazard Class:	No data available.
	Packing Group:	No data available.
DOT Basic Description	Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).	
IMDG	Proper Shipping Name:	No data available.
	UN Number:	No data available.
	Hazard Class:	No data available.
	Packing Group:	No data available.
	Marine Pollutant:	No data available.
IATA	Proper Shipping Name:	No data available.
	UN Number:	No data available.
	Hazard Class:	No data available.
	Packing Group:	No data available.

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SECTION 15: Regulatory information

Chemical Inventories

TSCA Status	All components of this material are on the US TSCA Inventory or are exempt.
U.S. State Restrictions:	Not applicable
WHMIS:	D1A, D2A B2, D1B, D2A, D2B (including 28%) A, D1A, D2B, E B3, D1A, D2B B2, D2A, D2B D1B B4, D2A

Chemical Name	Regulation	CAS #	%
2-Naphthalenamine	CERCLA	91-59-8	15 - 40
Methanol	CERCLA	67-56-1	1 - 5
Aniline	CERCLA	62-53-3	1 - 5
Benzene	CERCLA	71-43-2	0.1 - 1
1-Naphthalenamine	CERCLA	134-32-7	0.1 - 1
Naphthalene	CERCLA	91-20-3	0.1 - 1
.beta.-Naphthylamine	SARA 313	91-59-8	15 - 40
Methanol	SARA 313	67-56-1	1 - 5
Aniline	SARA 313	62-53-3	1 - 5
Benzene	SARA 313	71-43-2	0.1 - 1
.alpha.-Naphthylamine	SARA 313	134-32-7	0.1 - 1
Naphthalene	SARA 313	91-20-3	0.1 - 1
Sulfur dioxide	SARA EHS	7446-09-5	1 - 5
Aniline	SARA EHS	62-53-3	1 - 5
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
2-Naphthylamine	California Prop 65- Cancer	91-59-8	15 - 40
Trimethyl phosphate	California Prop 65- Cancer	512-56-1	1 - 5
Aniline	California Prop 65- Cancer	62-53-3	1 - 5
Benzene	California Prop 65- Cancer	71-43-2	0.1 - 1
1-Naphthylamine	California Prop 65- Cancer	134-32-7	0.1 - 1
Naphthalene	California Prop 65- Cancer	91-20-3	0.1 - 1
Sulfur dioxide	California Prop 65- Dev. Toxicity	7446-09-5	1 - 5
Methanol	California Prop 65- Dev. Toxicity	67-56-1	1 - 5
Benzene	California Prop 65- Dev. Toxicity	71-43-2	0.1 - 1
None.	California Prop 65- Reprod -fem		
Benzene	California Prop 65- Reprod-male	71-43-2	0.1 - 1
2-Naphthylamine	Massachusetts RTK List	91-59-8	15 - 40

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Chemical Name	Regulation	CAS #	%
Sulfur dioxide	Massachusetts RTK List	7446-09-5	1 - 5
Methanol	Massachusetts RTK List	67-56-1	1 - 5
Trimethyl phosphate	Massachusetts RTK List	512-56-1	1 - 5
Aniline	Massachusetts RTK List	62-53-3	1 - 5
Benzene	Massachusetts RTK List	71-43-2	0.1 - 1
1-Naphthylamine	Massachusetts RTK List	134-32-7	0.1 - 1
Naphthalene	Massachusetts RTK List	91-20-3	0.1 - 1
2-Naphthylamine	New Jersey RTK List	91-59-8	15 - 40
Sulfur dioxide	New Jersey RTK List	7446-09-5	1 - 5
Methyl alcohol	New Jersey RTK List	67-56-1	1 - 5
Aniline	New Jersey RTK List	62-53-3	1 - 5
Benzene	New Jersey RTK List	71-43-2	0.1 - 1
1-Naphthylamine	New Jersey RTK List	134-32-7	0.1 - 1
Naphthalene	New Jersey RTK List	91-20-3	0.1 - 1
2-Naphthalenamine	Pennsylvania RTK List	91-59-8	15 - 40
Sulfur dioxide	Pennsylvania RTK List	7446-09-5	1 - 5
Methanol	Pennsylvania RTK List	67-56-1	1 - 5
Benzenamine	Pennsylvania RTK List	62-53-3	1 - 5
Benzene	Pennsylvania RTK List	71-43-2	0.1 - 1
1-Naphthalenamine	Pennsylvania RTK List	134-32-7	0.1 - 1
Naphthalene	Pennsylvania RTK List	91-20-3	0.1 - 1
None.	Rhode Island RTK List		
2-Naphthylamine	Minnesota Hazardous Substance List	91-59-8	15 - 40
Sulfur dioxide	Minnesota Hazardous Substance List	7446-09-5	1 - 5
Methyl alcohol	Minnesota Hazardous Substance List	67-56-1	1 - 5
Aniline	Minnesota Hazardous Substance List	62-53-3	1 - 5
Benzene	Minnesota Hazardous Substance List	71-43-2	0.1 - 1
.alpha.-Naphthylamine	Minnesota Hazardous Substance List	134-32-7	0.1 - 1
Naphthalene	Minnesota Hazardous Substance List	91-20-3	0.1 - 1

HMIS Ratings:

Health: 3
 Fire: 1
 Reactivity: 0
 PPE: B

NFPA Ratings:

Health: 3
 Fire: 1
 Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16: Other information

Revision Date 2/8/2016 2:12:35 PM

Supersedes: 2/8/2016 8:56:59 AM

References No data available.

Disclaimer

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission

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SECTION 16: Other information

or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.