

# **Safety Data Sheet**

### **HiTEC® 312 Performance Additive**

SDS no.

H312

### **Section 1. Identification**

: HiTEC® 312 Performance Additive **Product identifier** 

: Petrochemical industry: Extreme Pressure Agent **Product use** 

: 18 November 2022 **Date of issue/Revisions** 

### In case of emergency - Chemical

+1-703-527-3887 (International)

+65-3158-1349 (Asia Pacific)

+61-290372994 (Australia)

4001-204937 (China)

+81-345209637 (Japan)

00-308-13-2549 (South Korea)

+1-703-741-5979 (Spanish language)

+44-870-8200418 (UK)

1-800-424-9300 (ÙS & Canada)

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### **Section 2. Hazards identification**

Classification of the

: FLAMMABLE LIQUIDS - Category 4

substance or mixture

**GHS** label elements

Hazard pictograms

Signal word : Warning

**Hazard statements** : Combustible liquid.

**Precautionary statements** 

**Prevention**: Avoid breathing vapour. Wear protective gloves. Wear eye or face protection.

Keep away from flames and hot surfaces. - No smoking.

**Response** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

**Storage** : Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do

not result in classification

: None known.

Please note some GHS hazard classifications listed above may not be applicable in your country or region and are shown for informational purposes only.

For other GHS hazard classifications not listed above, the classification is not applicable in your region.

### Section 3. Composition/information on ingredients

Substance/mixture : Substance

Ingredient name	CAS number	%	GHS Classification	Туре
1-Propene, 2-methyl-, sulfurized	68511-50-2	100	FLAMMABLE LIQUIDS - Category 4	[1]

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Please note some GHS hazard classifications listed above may not be applicable in your country or region and are shown for informational purposes only.

### **Type**

[1] Constituent

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### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation** 

: If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### **Potential acute health effects**

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-**

: No action shall be taken involving any personal risk or without suitable training.

aiders

### See toxicological information (Section 11)

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### **Section 5. Firefighting measures**

### **Extinguishing media**

Suitable extinguishing

: In case of fire, use water spray (fog), foam, dry chemical or CO2.

media

Unsuitable extinguishing media

: Do not use water jet.

# Specific hazards arising from the chemical

: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Hydrogen sulfide

# Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# **Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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### Section 6. Accidental release measures

### **Large spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

### **Precautions for safe handling**

### **Protective measures**

: Warning! Headspace of storage vessel may contain hydrogen sulfide. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

None.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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### Section 8. Exposure controls/personal protection

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection** 

**Hand protection** 

: Hand Protection: Wear chemical resistant gloves. Nitrile gloves of minimum thickness 0.4 mm have an expected breakthrough time of 480 minutes or less when in frequent contact with the product. Due to variable exposure conditions the user must consider that the practical use of a chemical-protective glove in practice may be much shorter than the permeation time above. Manufacturer's directions for use, especially about the minimum thickness and the minimum breakthrough time, must be observed. This information does not replace suitability tests by the end user since glove protection varies depending on the conditions under which the product is used.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

Physical state : Liquid. [Clear.]

**Colour** : Yellow. to Amber.

Odour : Pungent.

Odour threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: 80°C (176°F) [Pensky-Martens Minimum]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper : Not available.

**explosive (flammable)** 

limits

Vapour pressure : Not available.

Relative vapour density : Not available.

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### Section 9. Physical and chemical properties

: Not available. **Vapour density** 

: 1.133 g/cm3 [59°F (15°C)] **Density** 

: 1.135 **Relative density** 

Solubility(ies)

Media	Result
cold water	Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition** temperature

: Not available.

**Decomposition** 

temperature

: Not available.

: Not available.

: Kinematic (40°C): 59 mm<sup>2</sup>/s (59 cSt) **Viscosity** 

Minimum

8 cSt at 100°C

**Explosive properties** : Not available. **Oxidising properties** 

**Particle characteristics** 

: Not applicable. **Median particle size** 

### Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

: The product is stable. **Chemical stability** 

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, **Conditions to avoid** 

braze, solder, drill, grind or expose containers to heat or sources of ignition.

: Reactive or incompatible with the following materials: **Incompatible materials** 

oxidising materials

**Hazardous** Hydrogen sulfide

decomposition products

### Section 11. Toxicological information

Information on toxicological effects **Acute toxicity** 

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### **Section 11. Toxicological information**

Product/ingredient	Test	Result	Species	Dose	Exposure	Remarks
name						
1-Propene, 2-methyl-, sulfurized	None available.	LC50 Inhalation Vapour	Rat	>2 mg/l	6 hours	-
		LD50 Dermal LD50 Oral		>7940 mg/kg 9800 mg/kg	-	- -

### **Conclusion/Summary**

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

#### **Irritation/Corrosion**

Product/ingredient name	Test	Species	Result	Remarks
1-Propene, 2-methyl-, sulfurized	None available.	Rabbit	Eyes - Not an Irritant	-
	None available.	Rabbit	Skin - Not an Irritant	-

### **Conclusion/Summary**

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

#### **Sensitisation**

Product/ingredient name		Route of exposure	Species	Result	Remarks
1-Propene, 2-methyl-, sulfurized	None available.	skin	Guinea pig	Not sensitizing	-

### **Conclusion/Summary**

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

### **Mutagenicity**

Product/ingredient	Test	Experiment	Result	Remarks
name				
1-Propene, 2-methyl-, sulfurized	None available.	Experiment: In vitro Subject: Bacteria	Negative	-
	None available.	Experiment: In vitro Subject: Mammalian-Animal	Negative	-

**Conclusion/Summary** 

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

**Carcinogenicity** 

**Conclusion/Summary** 

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

**Reproductive toxicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

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

### Specific target organ toxicity (repeated exposure)

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### **Section 11. Toxicological information**

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

### **Aspiration hazard**

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

Result

Information on likely routes of exposure

Skin, Eyes, Ingestion, and Inhalation

#### **Potential acute health effects**

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Short term exposure**

Potential immediate

effects

**Potential delayed** 

effects

: Not available.

: Not available.

#### **Long term exposure**

**Potential immediate** 

effects

: Not available.

**Potential delayed** 

effects

: Not available.

### **Potential chronic health effects**

Product/ingredient name	Test	Species	Dose	Exposure	Result	Remarks
1-Propene, 2-methyl-, sulfurized	None available.	Rat	100 mg/kg	-	Sub-acute NOAEL Dermal	-

**Conclusion/Summary** 

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

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.

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### **Section 11. Toxicological information**

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

### **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure	Remarks
1-Propene, 2-methyl-, sulfurized	Acute EL50 >100 mg/	Algae - Pseudokirchneriella subcapitata	72 hours	No effects at saturation.
	Acute EL50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	No effects at saturation.
	Acute LL50 10000 mg/l	Fish - Cyprinodon variegatus	96 hours	-
	Chronic NOEL 5 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	No effects at saturation.

**Conclusion/Summary** 

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

### **Persistence and degradability**

Product/ingredient name	Test	Result	Remarks
1-Propene, 2-methyl-, sulfurized	OECD 301B Ready Biodegradability - CO2 Evolution Test	0.3 % - Not readily - 28 days	-

### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Mobility

Hazardous to the ozone

Not available.Not applicable.

layer

**Other adverse effects** 

: No known significant effects or critical hazards.

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### **Section 13. Disposal considerations**

### **Disposal methods**

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	UN	ADG	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class (es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

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### **Section 15. Regulatory information**

### **China**

#### **List of Goods banned for Importing**

None of the components are listed.

### **List of Goods banned for Exporting**

None of the components are listed.

#### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### **Singapore**

### Singapore - hazardous chemicals under government control

None.

### **Australia**

### **Standard for the Uniform Scheduling of Medicines and Poisons**

Not applicable.

### **Model Work Health and Safety Regulations - Scheduled Substances**

No listed substance

### <u>Japan</u>

#### **Fire Service Law**

Category	Substance name/Type	Danger category
Category IV	Class III petroleums	III

#### **Industrial Safety and Health Act**

### **Label Requirements and Chemicals Requiring Notification**

Ingredient name	%
None of the components are listed.	

#### **Chemical Substances Control Law (CSCL)**

None of the components are listed.

### **Poisonous and Deleterious Substances**

None of the components are listed.

#### **Pollutant Release and Transfer Registers (PRTR)**

None of the components are listed.

### **Japan - Water Pollution Control Law**

Not listed.

### Korea

### Regulation according to ISHA

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### Section 15. Regulatory information

**ISHA** article 117

: None of the components are listed.

(Harmful substances prohibited from manufacture)

ISHA article 118

: None of the components are listed.

(Harmful substances requiring permission)

### **Regulation according to K-REACH/CCA**

% **Remarks Chemical name** : None of the components are listed. K-REACH/CCA **Toxic chemicals** 

K-REACH/CCA -

: None of the components are listed.

**Banned** 

: None of the components are listed. K-REACH/CCA -

Restricted

: None of the components are listed. K-REACH/CCA

**Article - TRI** 

: Class: Class 4 - Flammable Liquid **Dangerous Materials** 

**Safety Management** 

Threshold: 2000 L

Act

Danger category: III Signal word: Contact with sources of ignition prohibited

Item: 5. Class 3 petroleums - Water-insoluble liquid

**International Inventory Status** 

: All components are listed or exempted. **Australia** : All components are listed or exempted. Canada China : All components are listed or exempted.

: For information on compliance with this regulation please contact your Afton **Europe** 

representative

(EHS.CustomerVolumes@AftonChemical.com).

All components are listed or exempted. **Japan** : All components are listed or exempted. **Republic of Korea** : All components are listed or exempted. **New Zealand** : All components are listed or exempted. **Philippines** 

For information on compliance with this regulation please contact your Afton representative **Switzerland** 

(EHS.CustomerVolumes@AftonChemical.com).

: For information on compliance with this regulation please contact your Afton representative **Turkey** 

(EHS.CustomerVolumes@AftonChemical.com).

All components are listed or exempted. Taiwan

**United Kingdom** 

: For information on compliance with this regulation please contact your Afton representative (EHS.CustomerVolumes@AftonChemical.com). (UK)

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### **Section 15. Regulatory information**

United States

: All components are active or exempted.

Active

### **Section 16. Other information**

**History** 

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Key to abbreviations

EHS Department (Tel: +1 804 788 5800)

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: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations
WOE = Weight of Evidence

#### **Procedure used to derive the classification**

Classification	Justification
FLAMMABLE LIQUIDS - Category 4	On basis of test data

 $m ec{m ec v}$  Indicates information that has changed from previously issued version.

#### **Notice to reader**

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

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