

Safety Data Sheet

SDS no. H6949 Date of issue/Date of 9/23/2019 revision

Section 1. Identification

GHS product identifier

Product use

: HiTEC® 6949 Performance Additive

: Petrochemical industry: Detergent

In case of emergency - Chemical

0800-70-77-022 (Brazil) 01-800-681-9531 (Mexico) +1-703-527-3887 (International) +1-703-741-5979 (Spanish language) +1-800-424-9300 (US & Canada)

Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 USA

Non-Emergency Telephone: +1-804-788-5800

Afton Chemical Canada Corporation 5045 South Service Road Suite 101 Burlington, ON L7L 5Y7 905-631-5470

Section 2. Hazards identification		
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
Classification of the substance or mixture	: Not classified.	
GHS label elements		
Signal word	: No signal word.	
Hazard statements	: No known significant effects or critical hazards.	
Precautionary statemen	<u>ts</u>	
Prevention	: Not applicable.	
Response	: Not applicable.	
Storage	: Store in well-ventilated place.	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Additional hazards	: None known.	

Section 3. Composition/information on ingredients

Substance/mixture

: Substance

Ingredient name	CAS number	Conc. (% w/w)	US GHS Classification
Long-chain alkyl benzene	Proprietary	>96	Not classified.

Any concentration shown as a range is to protect confidentiality or is due to batch variation. If specific chemical identify is withheld, it is to protect confidentiality.

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

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. Get medical attention if irritation occurs.
Inhalation	 If inhaled, remove to fresh air. Get medical attention if symptoms occur. 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.
Ingestion	: Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>		
Eye contact	: No known significant effects or critical hazards.		
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/sym	<u>ptoms</u>		
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-aiders	: No action shall be taken involving any personal risk or without suitable training.		

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	: Do not use water jet.

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Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.
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 spilled material. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized 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 spilled 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 materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. 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.
Large spill	: Stop leak if without risk. Move containers from spill area. 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. 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	: Put on appropriate personal protective equipment (see Section 8).
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 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<u>Control parameters</u> <u>Occupational exposure limit</u> None.	<u>S</u>	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	
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.	
Individual protection measure	<u>25</u>	
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	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.	
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

Appearance	
Physical state	: Liquid. [Viscous liquid.]
Color	: Amber. to Brown.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 130°C (266°F) [Pensky-Martens. Minimum]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.

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Section 9. Physical and chemical properties

Vapor pressure	1	Not available.
Vapor density	:	Not available.
Density	:	0.854 g/cm³
Relative density	:	Not available.
Solubility	:	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C): 0.2398 cm ² /s
Viscosity	1	2.74 cSt @ 100°C

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: High temperatures, sparks and open flames.
Incompatible materials	: Strong oxidizing and reducing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Result	Species	Dose	Exposure	Remarks
Long-chain alkyl benzene	Dermal Toxicity 401 Acute Oral	LD50 Dermal LD50 Oral		>2000 mg/kg >5000 mg/kg	-	-
	Toxicity					

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Test	Species	Result	Remarks
	404 Acute Dermal Irritation/Corrosion 405 Acute Eye Irritation/Corrosion		Skin - Not an Irritant Eyes - Not an Irritant	-

Conclusion/Summary

Skin	: Not available.
Eyes	: Not available.
Respiratory	: Not available.

Sensitization

Section 11. Toxicological information

Product/ingredient nan	ne	Test		Route of exposure		Spec	ies	Res	sult	Remar	ks
hexadec-1-ene		406 Skin Sensitization		skin		Guine	ea pig	Not sens	sitizing		on data for a substance.
Conclusion/Summary						•		•			
Skin		: Not available									
Respiratory		: Not available									
Mutagenicity		1		1						1	
Product/ingredient nan		Test			erimer				Result	Rema	rks
Long-chain alkyl benzen	e	471 Bacterial Reverse Mutation Test None available.		Subj Expe	ect: Ba riment	:: In vitro cteria :: In vivo ammalia	D	1	Negative Negative	Based	on data for substance.
Conclusion/Summary		Not available									
Carcinogenicity Conclusion/Summary <u>Classification</u> Reproductive toxicity		: Not available									
Product/ingredient name	Test		Route o exposu	Oper		aterna oxicity	l Fer	tility	Develo toxin	opment	Remarks
Long-chain alkyl benzene	None	e available.	Oral	Rat	N	egative	Equ	iivoca	I Equivo	ocal	Based on data for a similar
											substance.
		: Not available									
		Test			Speci	ies	Resul				substance. arks
Teratogenicity	ne	1			Speci Rat	ies	Resul Equivo		Oral	Based o	substance. arks
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Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	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
Long-chain alkyl benzene	None available.	Rat	50 mg/kg	-	Chronic NOAEL Oral	Based on data for a similar substance.
	None available.	Rat	0.102 mg/l	14 weeks	Sub-chronic NOAEL Inhalation Vapor	Based on data for a similar substance.
Conclusion/Summary	: Not available.	·				
General	 No known signifi 	cant effects o	r critical haz	arde		

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.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
Not available.	

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure	Remarks
Long-chain alkyl benzene	Acute EL50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	No effects at saturation.
	Acute LL50 >1000 mg/l	Fish - Oncorhynchus mykiss	96 hours	No effects at saturation.

Conclusion/Summary : Not available.

Persistence and degradability

Product/ingredient name	Test	Result	Remarks
Long-chain alkyl benzene	OECD 301F Ready Biodegradability - Manometric Respirometry Test	58.8 % - Not readily - 28 days	-

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hexadec-1-ene	8.06	4.37	low

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and
	sewers.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

Notice to reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

Section 15. Regulatory information

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U.S. Federal regulations SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : Not applicable. Composition/information on ingredients

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Section 15. Regulatory information

Name	%	Classification
hexadec-1-ene	≥1 - ≤3	ASPIRATION HAZARD - Category 1

SARA 313

No SARA 313 chemicals are present above the reporting threshold.

RQ (Reportable quantity) : CERCLA: Hazardous substances.: benzene: 10 lbs. (4.54 kg);

United States - TSCA 12(b) - Chemical export notification

List name	<u>Status</u>	Name on list	Ref. number
None of the components are listed.			

State - California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	%	Cancer	Reproductive		Maximum acceptable dosage level
Benzene	<0.1	Yes.	Yes.	Yes.	Yes.

Canadian regulations

Canadian NPRI

- : None of the components are listed.
- **CEPA Toxic substances** : None of the components are listed.

International Inventory Status

Australia	: At least one component is not listed.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
New Zealand	: At least one component is not listed.
Philippines	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
United States	: All components are listed or exempted.
Europe	 For information on compliance with regulation (EC) No. 1907/2006 (REACH) and amendments please contact your Afton representative.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 9/23/2019
Prepared by	: EHS Department (Tel: +1 804 788 5800)
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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

V Indicates information that has changed from previously issued version.

Section 16. Other information

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.