

Safety Data Sheet

HiTEC® 356 Performance Additive

MSDS no. H356

HiTEC is a trademark owned by Afton Chemical Corporation or one of its subsidiaries.

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

Product identifier					
Product name	: HiTEC® 356 Performance Additive				
REACH Registration number	: Not available.				
Relevant identified uses of the	ne substance or mixture and uses advised	against			
Identified uses	: Petrochemical industry: Gear Additive Pa	ackage			
Uses advised against	: Not available.				
Date of issue/Revisions	16 March 2014				
Details of the supplier of the	safety data sheet				
In the United States and Canada:		In Europe:			
Afton Chemical Corporation		Afton Chemical Limited			
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Emergency telephone number

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SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Directive 1999/45/EC [DPD] or Classification according to Directive 67/548/EEC [DSD]

N; R51/53

Label elements

Hazard symbol(s)



Dangerous for the environment

Risk phrases

Safety phrases Additional warning phrases R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 S57- Use appropriate containment to avoid environmental contamination.
 Contains Long shein allud aming. May produce an ellergia reaction.

Scontains Long-chain alkyl amine. May produce an allergic reaction.

Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

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SECTION 2: Hazards identification

Substance meets the
criteria for vPvB according
to Regulation (EC) No.
1907/2006, Annex XIIINot applicable.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

SECTION 3: Composition/information on ingredients

Ingredient name	Identifiers	<u>Conc. (% w/w)</u>	DSD Classification	CLP Classification
Mineral oil	Mixture	30 - 60	Not classified.	Not classified.
Alkyl dithio thiadiazole	Proprietary	1 - 4.9	R52/53	Aquatic Chronic 3, H412
Long-chain alkyl amine	Proprietary	1 - 4.9	T; R23/24	Acute Tox. 4, H302
			Xn; R22, R48/20	Acute Tox. 3, H311
			C; R34	Acute Tox. 2, H330
			R43	Skin Corr. 1B, H314
			N; R50/53	Skin Sens. 1, H317
				Aquatic Acute 1, H400
				Aquatic Chronic 1, H410
Alkyl Phosphonate	Proprietary	1 - 4.9	Xi; R36/38	Skin Irrit. 2, H315
· ·	. ,		N; R51/53	Eye Irrit. 2, H319
				Aquatic Chronic 2, H411
Alkyl phosphate	Proprietary	1 - 4.9	C; R34	Skin Corr. 1B, H314
			Xi; R37	STOT SE 3, H335
				(Respiratory tract
				irritation)
Long-chain alkenyl amine	Proprietary	0.1 - 0.5	Xn; R22, R48/22	Acute Tox. 4, H302
			C; R34	Skin Corr. 1B, H314
			Xi; R37	Eye Dam. 1, H318
			N; R50	STOT SE 3, H335
				(Respiratory tract
				irritation)
				STOT RE 2, H373
				Aquatic Acute 1, H400
Alkyl amine	Proprietary	0.1 - 0.5	Xn; R20/21/22	Flam. Lig. 3, H226
,	1 5		C; R35	Acute Tox. 3, H301
			N; R50	Acute Tox. 3, H311
				Acute Tox. 4, H332
				Skin Corr. 1A, H314
				STOT SE 3, H335
				(Respiratory tract
				irritation)
				Aquatic Acute 1, H400

If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, the registration date has not yet come due or this information is proprietary.

SECTION 4: First aid measures				
Description of fir	st aid measures			
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.			
Ingestion	If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.			
Skin contact	: Wash with soap and water. Get medical attention if irritation develops.			
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.			

Most important symptoms and effects, both acute and delayed

Human health (combined for all exposure routes) Can cause dizziness, light-headedness, headache, nausea and blurred vision. diarrhea abdominal cramps and pain drowsiness/fatigue

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SECTION 4: First aid	me	asures		
Indication of any immediate	medio	cal attention and special treatment needed		
Notes to physician	: N	lot applicable.		
SECTION 5: Firefight	ting	measures		
Extinguishing media				
Suitable extinguishing media	: Ir	n case of fire, use water spray (fog), foam, dry chemical or CO₂.		
Special hazards arising from	the s	ubstance or mixture		
Hazards from the substance or mixture	: N	lot available.		
Hazardous combustion products	c c n s	ecomposition products may include the following materials: arbon dioxide arbon monoxide itrogen oxides ulfur oxides hosphorus oxides		
Advice for firefighters				
Special protective equipment for fire-fighters		ire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) ar ear.	nd full turnout	
Additional information	: N	Not available.		

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

Environmental precautions and Methods and materials for containment and cleaning up

If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways.

Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Precautions for safe handling

Do not ingest. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Specific end use(s)

Refer to section 1 or the extended SDS if applicable.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Control parameters

Italy Mineral Oil

Occupational exposure limits	
Product/ingredient name	Exposure limit values
Europe	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Austria	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Belgium	
Mineral Oil	Lijst Grenswaarden / Valeurs Limites (Belgium). TWA: 5 mg/m³ 8 hours. STEL: 10 mg/m³ 15 minutes.
Bulgaria	
Mineral Oil	РБ МТСП и МЗ Наредба №13/2003 (Bulgaria). Limit value 8 hours: 5 mg/m³
Croatia	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Czech Republic	
Mineral Oil	178/2001 (Czech Republic). TWA: 5 mg/m³ 8 hours. CEIL: 10 mg/m³
Denmark	
Mineral Oil	Arbejdstilsynet (Denmark). GV: 1 mg/m³
Estonia	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Finland	
Mineral Oil	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland). TWA: 5 mg/m³ 8 hours.
France	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Germany	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Greece	
Mineral Oil	PD 90/1999 (Greece). TWA: 5 mg/m³ 8 hours.
Hungary	
Mineral Oil	EüM-SzCsM (Hungary). CEIL: 5 mg/m³
Ireland	
Mineral Oil	NAOSH (Ireland). OELV: 5 mg/m³ 8 hours.
Itoly	

Ministero della Salute (Italy). TWA: 5 mg/m³ 8 hours.

SECTION 8: Exposure controls/personal protection

Latvia	
Mineral Oil	LV Nat. Standardisation and Meterological Centre (Latvia). TWA: 5 mg/m ³ 8 hours.
Lithuania	
Mineral Oil	Del Lietuvos Higienos Normos (Lithuania). TWA: 1 mg/m ³ 8 hours. STEL: 3 mg/m ³ 15 minutes.
Netherlands	
Mineral Oil	Nationale MAC-lijst (Netherlands). TGG: 5 mg/m³ 8 hours.
Norway	
Mineral Oil	Arbeidstilsynet (Norway). AN: 1 mg/m³
Poland	
Mineral Oil	Rozporządzenie Ministra Pracy i Polityki Społecznej (Poland). TWA: 5 mg/m ³ 8 hours. STEL: 10 mg/m ³ 15 minutes.
Portugal	
Mineral Oil	Instituto Português da Qualidade (Portugal). TLV-TWA: 5 mg/m³ 8 hours. STEL: 10 mg/m³
Romania	
Mineral Oil	Ministerul Muncii, Solidarității Sociale și Familiei, și Ministerul Sănătății Publice (Romania). VLA: 5 mg/m ³ 8 hours. Termen scurt: 10 mg/m ³ 15 minutes.
Slovakia	
Mineral Oil	Nariadenie Vlády Slovenskej republiky (Slovakia). TWA: 5 mg/m³ 8 hours.
Slovenia	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m ³ 8 hours.
Spain Mineral Oil	
Mineral Oil	INSHT (Spain). VLA-ED: 5 mg/m ³ 8 hours. VLA-EC: 10 mg/m ³ 15 minutes.
Sweden	
Mineral Oil	AFS 2005:17 (Sweden). NGV: 1 mg/m³ KTV: 3 mg/m³
Switzerland	č
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
Turkey	
Mineral Oil	EH40-MEL (Europe, 2002). TWA: 5 mg/m³ 8 hours.
United Kingdom (UK)	
Mineral Oil	EH40-MEL (Europe, 2002).

TWA: 5 mg/m³ 8 hours.

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Recommended monitoring procedures	his product contains ingredients with exposure limits, personal, workplace mosphere or biological monitoring may be required to determine the effectiveness the ventilation or other control measures and/or the necessity to use respiratory otective equipment. Reference should be made to monitoring standards, such as e following: European Standard EN 689 (Workplace atmospheres - Guidance for e assessment of exposure by inhalation to chemical agents for comparison with nit values and measurement strategy) Reference to national guidance documents r methods for the determination of hazardous substances will also be required.	

Derived No Effect Level

Product/ingredient name	Туре	Exposure	Value	Population	Effects
No DNELs available.					

DNEL Summary : Not available.

Predicted No Effect Concentration

Product/ingredient r	ame	Туре	Compartment Detail	Value	Method Detail
No PNECs available.					
PNEC Summary	: Not	available		I	
Exposure controls					
Appropriate engineering controls			st ventilation or other engine their respective threshold lim		p the airborne concentrations of
Individual protection meas	ures				
Eye/face protection			with side shields. Goggles terial and conditions of use.	with a face shield ma	ay be necessary depending on
Skin protection		-			
Hand protection	an e> to va glove use, This	pected br riable expo in practic especially information	eakthrough time of 480 minu osure conditions the user mu e may be much shorter than about the minimum thicknes	tes or less when in fr st consider that the p the permeation time s and the minimum b tests by the end use	of minimum thickness 0.4 mm ha requent contact with the product. I practical use of a chemical-protect above. Manufacturer's directions preakthrough time, must be observer r since glove protection varies
Body protection	: Dispo	osable out	er garments when there is a	risk of contact with th	ne material.
Other skin protection	: Not a	pplicable.			
Respiratory protection	: Use a	appropriat	e respiratory protection if the	re is the potential to e	exceed the exposure limit(s).
Environmental exposure controls	with filters	the requir s or engir	rements of environmental	protection legislatio	uld be checked to ensure they on the second to ensure they on the second to the second

SECTION 9: Physical and chemical properties

Information on basic physical a	nd chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Color	: Amber.
Odor	: Petroleum. [Slight]
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 100°C [Pensky-Martens. Minimum]
Evaporation rate	: Not available.
Flammability (solid, gas)	: High temperatures, sparks, and open flames.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.

SECTION 9: Physical and chemical properties

.6°C (60.1°F)]
e following materials: cold water.

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	: Not determined.
Conditions to avoid	: High temperatures, sparks, and open flames.
Incompatible materials	: Strong oxidizing and reducing agents.
Hazardous decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Mineral Oil	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Long-chain alkyl amine	LD50 Dermal	Rat	251 mg/kg	-
0	LD50 Oral	Rat	612 mg/kg	-
Alkyl Phosphonate	LD50 Dermal	Rabbit	5000 mg/kg	-
2	LD50 Oral	Rat	3200 mg/kg	-
Alkyl phosphate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	500 to 5000 mg/	-
			kg	
Long-chain alkenyl amine	LD50 Oral	Rat	1689 mg/kg	-
Alkyl amine	LD50 Dermal	Rabbit	>200 mg/kg	-
-	LD50 Oral	Rat	>250 mg/kg	-
	LDLo Dermal	Rabbit	2000 mg/kg	-
	LDLo Oral	Rat	50 mg/kg	-

Acute toxicity estimates

Route	ATE value
No specific data.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
No specific data.					

Sensitizer

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SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
No specific data.			

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Alkyl amine	-	Experiment: In vitro Subject: Bacteria	Negative
Carcinogenicity			

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
No specific data.				

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
No specific data.						

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
No specific data.				

Potential acute health effects

Inhalation	: Irritating to respiratory system.
	Does not meet EU R37 classification criteria.
Ingestion	: Not determined.
	Ingestion may cause gastrointestinal irritation and diarrhea.
Skin contact	: Non-irritating to the skin.
Eye contact	: Non-irritating to the eyes.
Symptoms related to the p	physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
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	Result	Species	Dose	Exposure		
No specific data.						
Conclusion/Summary	: Not available.					
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.					
oxicokinetics						

Afton HiTEC® 3 Additive	356 Performance	In Case of Emergency: +32-2-808-3237 (EU)	1-800-424-9300	(US/Canada), +1	1-703-527-388	7 (Int'I),	Page: 9/12
Absorption	: Not a	available.					
Distribution	: Not a	available.					
Metabolism	: Not a	available.					
Elimination	: Not a	available.					

SECTION 12: Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Long-chain alkenyl amine	EC50 0.03 mg/l EC50 0.011 mg/l LC50 0.11 mg/l	Algae Daphnia Fish	96 hours 48 hours 96 hours
Conclusion/Summary	: Not available.	· · · · · · · · · · · · · · · · · · ·	

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Not available.						
Conclusion/Summary	: Not available.					
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Not available.						

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Not available.			

Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

Results of PBT and vPvB assessment

PBT	: Not applicable.
	P: Not available. B: Not available. T: Not available.
vPvB	: Not applicable.
	vP: Not available. vB: Not available.
Other adverse effects	: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Waste treatment methods

Waste handling and disposal	:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
European waste catalogue (EWC) Number	:	13 02 05*

SECTION 14: Transport information

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SECTION 14: Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Special precautions for user
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	UN3082	Environmentally hazardous substances n.o.s. (Contains Long-chain alkyl amine, Alkyl phosphonate)	9	111		-
ADR/RID Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Long-chain alkyl amine, Alkyl phosphonate)	9	111		Hazard identification number 90 Tunnel code (E)
IMDG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Long-chain alkyl amine, Alkyl phosphonate). Marine pollutant	9	111		
IATA-DGR Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Long-chain alkyl amine, Alkyl phosphonate)	9			
ADG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Long-chain alkyl amine, Alkyl phosphonate)	9	111		

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Other EU regulations	
Germany water class :	2
International Inventory Status	
United States inventory (TSCA 8b)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
Europe inventory	: All components are listed or exempted.
Japan inventory (ENCS)	: All components are listed or exempted.
Australia inventory (AICS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.

SECTION 15: Regulatory information

New Zealand Inventory of Chemicals (NZIoC)

: Not determined.

Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Full text of classifications [CLP/GHS]	 Acute Tox. 2, H330 ACUTE TOXICITY (inhalation) - Category 2 Acute Tox. 3, H301 ACUTE TOXICITY (oral) - Category 3 Acute Tox. 3, H311 ACUTE TOXICITY (oral) - Category 3 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (oral) - Category 4 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3 Eye Dam. 1, H318 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B Skin Sens. 1, H317 SKIN SENSITIZATION - Category 2 STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 STOT SE 3, H335 (Respiratory tract irritation) USON F.
Full text of abbreviated H statements	 H226 Flammable liquid and vapor. H301 TOXIC IF SWALLOWED. (oral) H302 Harmful if swallowed. H311 Toxic in contact with skin. H311 Toxic in contact with skin. (dermal) H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. (inhalation) H335 May cause respiratory irritation. (Respiratory tract irritation) (Respiratory tract (Respiratory tract
Full text of classifications [DSD/DPD]	 H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. : T - Toxic C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment

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SECTION 16: Other information

Full text of abbreviated R phrases	: R23/24- Toxic by inhalation and in contact with skin. R22- Harmful if swallowed.
	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
	R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
	R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed.
	R34- Causes burns.
	R35- Causes severe burns.
	R37- Irritating to respiratory system.
	R36/38- Irritating to eyes and skin.
	R43- May cause sensitization by skin contact.
	R50- Very toxic to aquatic organisms.
	R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PREPARATION INFORMATION

Validated by HS&E Department (Tel: +1 804 788 5800) on 3/16/2014.

Date of printing : 3/16/2014.

Notice to reader

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ADDRESS CONTACT INFORMATION

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