

## SAFETY DATA SHEET

### 1. Identification

1. Identification			
Product identifier	COREFLEX® 60		
Other means of identification	None.		
Recommended use	Not available.		
Recommended restrictions	Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	CETCO, an MTI Company 2870 Forbs Avenue Hoffman Estates, IL 60192 United States		
Telephone	General Information 800 527-9948		
Website	http://www.cetco.com/		
E-mail	safetydata@mineralstech.com		
Emergency phone number	Emergency 1.866.519.4752/1 760 476 3962		
Supplier	Not available.		
2. Hazard identification			
Physical hazards	Not classified.		
Health hazards	Carcinogenicity Category 1A		
	Specific target organ toxicity, repeated Category 1 exposure		
Environmental hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	May cause cancer. Causes damage to organs through prolonged or repeated exposure.		
Precautionary statement			
Prevention	Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label).		
Storage	Store locked up. Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements. Dispose of contents/container to .		
Other hazards	None known.		
Supplemental information	% of the mixture consists of component(s) of unknown acute oral toxicity. 99.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 99.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.		

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%	
BENTONITE		1302-78-9	18	
Other components below repor	table levels		82	
Constituents				
Chemical name	Common name and synonyms	CAS number	%	
QUARTZ (SIO2)		14808-60-7	<= 1	
CRISTOBALITE		14464-46-1	<= 0.4	
M: M-factor PBT: persistent, bioaccumulative a vPvB: very persistent and very bio All concentrations are in percent b a specific chemical identity and/or		s a trade secret. The manufac	cturer lists no	
Composition comments	Bentonite contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Occupational Exposure Limits for constituents are listed in Section 8. Occupational Exposure Limits for impurities are listed in Section 8. This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 1%.			
4. First-aid measures				
Inhalation	Remove to fresh air. Move to fresh air. If not b trained personnel. Get medical attention, if ne		tion or give oxygen by	
Skin contact	Get medical attention if irritation develops or persists. No special measures required.			
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.			
Ingestion	Rinse mouth thoroughly. If ingestion of a large amount does occur, seek medical attention. If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. No special measures required.			
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary effects.	/ irritation. Prolonged exposur	e may cause chronic	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea Symptoms may be delayed.	at symptomatically. Keep victi	n under observation.	
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that r involved, and take precautions to protect then attendance.	medical personnel are aware o	of the material(s)	
5. Fire-fighting measures				
Suitable extinguishing media	Foam. Powder. Dry chemical, CO2, water spr surrounding fires.	ay or regular foam. Use any m	nedia suitable for the	
Unsuitable extinguishing media	None known.			
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	e formed.		
Special protective equipment and precautions for firefighters	Material can be slippery when wet.			
Fire fighting equipment/instructions	Use water spray to cool unopened containers			
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other invo	lved materials.	
General fire hazards	Not a fire hazard. No unusual fire or explosion	hazards noted.		

#### 6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. This product is miscible in water. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Reduce airborne dust and prevent scattering by moistening with water.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. No special restrictions on storage with other products. Store in original tightly closed container. Guard against dust accumulation of this material. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Keep in a cool, well-ventilated place.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. ACGIH Threshold Limit Valu Constituents	les Type	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupat	ional Health & Safety Code, Sc	hedule 1, Table 2)	
Constituents	Туре	Value	Form
		0.005	Deseriveble resticles

QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable particles.
		0.025 mg/m3	Respirable.
Impurities	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable particles.

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Constituents	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Impurities	Туре	Value	Form
Impurities INERT OR NUISANCE DUSTS	<b>Type</b> TWA	Value 3 mg/m3	Form Respirable fraction.

Constituents	Reg. 217/2006, The Workplace Safety A Type	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Ontario OELs. (C Constituents	ontrol of Exposure to Biological or Ch Type	emical Agents) Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable fraction.
Impurities	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Canada. Quebec OELs. (M Constituents	linistry of Labor - Regulation respecti Type	ng occupational health and sa Value	ifety) Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.
Impurities	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	10 mg/m3	Total dust.
logical limit values	No biological exposure limits noted f	or the ingredient(s).	
oosure guidelines	Some of the components of this proc of the physical nature of this product		
oropriate engineering atrols	If engineering measures are not sufficient to maintain concentrations of dust particulates below OEL, suitable respiratory protection must be worn. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used ir any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.		
ividual protection measure	s, such as personal protective equipn		
Eye/face protection	Wear dust goggles. Avoid contact wi	th eyes. Eye wash fountain is re	ecommended.
Skin protection Hand protection	Wear appropriate chemical resistant	gloves.	
Other	Use of an impervious apron is recommended. No special protective equipment required.		
•	Use a particulate filter respirator for particulate concentrations exceeding the Occupational		
Respiratory protection	Use a particulate filter respirator for p Exposure Limit.	particulate concentrations excee	eding the Occupational
			eding the Occupational
Respiratory protection	Exposure Limit.	clothing, when necessary. quirements. Keep away from fouch as washing after handling the wash work clothing and protection	od and drink. Always obse le material and before eati ive equipment to remove
Respiratory protection Thermal hazards neral hygiene	Exposure Limit. Wear appropriate thermal protective Observe any medical surveillance re good personal hygiene measures, su drinking, and/or smoking. Routinely contaminants. Use good industrial h	clothing, when necessary. quirements. Keep away from fouch as washing after handling the wash work clothing and protection	od and drink. Always obse le material and before eati ve equipment to remove
Respiratory protection Thermal hazards neral hygiene nsiderations	Exposure Limit. Wear appropriate thermal protective Observe any medical surveillance re good personal hygiene measures, su drinking, and/or smoking. Routinely contaminants. Use good industrial h	clothing, when necessary. quirements. Keep away from for uch as washing after handling th wash work clothing and protecti ygiene practices in handling this	od and drink. Always obse ne material and before eati ve equipment to remove material.
Respiratory protection Thermal hazards heral hygiene hsiderations Physical and chemical	Exposure Limit. Wear appropriate thermal protective Observe any medical surveillance re good personal hygiene measures, su drinking, and/or smoking. Routinely contaminants. Use good industrial hy <b>I properties</b>	clothing, when necessary. quirements. Keep away from for uch as washing after handling th wash work clothing and protecti ygiene practices in handling this	od and drink. Always obse ne material and before eati ve equipment to remove material.
Respiratory protection Thermal hazards heral hygiene hsiderations Physical and chemical bearance	Exposure Limit. Wear appropriate thermal protective Observe any medical surveillance re good personal hygiene measures, su drinking, and/or smoking. Routinely contaminants. Use good industrial hy <b>I properties</b> The product consists of bentonite gravity	clothing, when necessary. quirements. Keep away from for uch as washing after handling th wash work clothing and protecti ygiene practices in handling this	od and drink. Always obse ne material and before eati ve equipment to remove material.
Respiratory protection Thermal hazards heral hygiene hsiderations Physical and chemical bearance Physical state	Exposure Limit. Wear appropriate thermal protective Observe any medical surveillance re good personal hygiene measures, su drinking, and/or smoking. Routinely contaminants. Use good industrial hy <b>I properties</b> The product consists of bentonite gra Solid.	clothing, when necessary. quirements. Keep away from for uch as washing after handling th wash work clothing and protecti ygiene practices in handling this	od and drink. Always obse ne material and before eati ve equipment to remove material.

Odor threshold	Not available.
рН	7 - 11
	7 - 11
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Non-flammable
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Non-explosive
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00004 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.41 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	0 % estimated
Specific gravity	1.41 estimated
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	None known. Contact with incompatible materials.

Conditions to avoidNone known. Contact with incompatible materials.Incompatible materialsNone known.Hazardous decomposition<br/>productsNone known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May be harmful if swallowed. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.

Acute toxicity	May be harmful if swallow	ved.
Toxicological data		
Constituents	Species	Test Results
CRISTOBALITE (CAS 14464-46-	1)	
Acute		
Oral		
LD50	Rat	> 22500 mg/kg
Skin corrosion/irritation	Prolonged skin contact m	ay cause temporary irritation.
Serious eye damage/eye irritation	Mild irritant to eyes (according to the modified	rding to the modified Kay & Calandra criteria) Mild irritant to eyes d Kay & Calandra criteria)
Respiratory or skin sensitizatio	n	
Canada - Alberta OELs: Irri	tant	
CRISTOBALITE (CAS 1	4464-46-1)	Irritant
<b>Respiratory sensitization</b>	Not a respiratory sensitize	er.
Skin sensitization	According to the classifica being a skin irritant.	ation criteria of the European Union, the product is not considered as
Germ cell mutagenicity	No data available to indica mutagenic or genotoxic.	ate product or any components present at greater than 0.1% are
Carcinogenicity	that the main effect in hur "There is sufficient inform persons with silicosis (and quarries and in the ceram the cancer risk" (SCOEI worker protection against regulatory occupational est	e EU Scientific Committee on Occupational Exposure Limits) concluded nans of the inhalation of respirable crystalline silica dust is silicosis. ation to conclude that the relative risk of lung cancer is increased in d, apparently, not in employees without silicosis exposed to silica dust in ic industry). Therefore, preventing the onset of silicosis will also reduce L SUM Doc 94-final, June 2003) According to the current state of the ar silicosis can be consistently assured by respecting the existing xposure limits. May cause cancer. Occupational exposure to respirable alline silica should be monitored and controlled.
ACGIH Carcinogens		
CRISTOBALITE (CAS 1	4464-46-1)	A2 Suspected human carcinogen.
QUARTZ (SIO2) (CAS 1		A2 Suspected human carcinogen.
Canada - Alberta OELs: Ca	• • •	
CRISTOBALITE (CAS 1 QUARTZ (SIO2) (CAS 1		Suspected human carcinogen. Suspected human carcinogen.
Canada - Manitoba OELs: d		Supported haman balomogon.
CRISTOBALITE (CAS 1	• •	Suspected human carcinogen.
QUARTZ (SIO2) (CAS 1		Suspected human carcinogen.
Canada - Quebec OELs: Ca	• • •	
CRISTOBALITE (CAS 1		Detected carcinogenic effect in animals.
QUARTZ (SIO2) (CAS 1 IARC Monographs. Overall		Suspected carcinogenic effect in humans.
CRISTOBALITE (CAS 1	-	1 Carcinogenic to humans.
QUARTZ (SIO2) (CAS 1	4808-60-7)	1 Carcinogenic to humans.
US. National Toxicology Pr		-
CRISTOBALITE (CAS 1	,	Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.
QUARTZ (SIO2) (CAS 1		Known To Be Human Carcinogen.
Reproductive toxicity		ted to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Causes damage to organ	s through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.	

Ecotoxicity Components	This material is not expected to be harmfi Species	Test Results		
12. Ecological informa				
Further information	This product has no known adverse effec	t on human health.		
	Occupational exposure to nuisance dust should be monitored and controlled.	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
	assured by respecting the existing regula organs through prolonged or repeated ex the components of this product are hazar	According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected.		
	that the main effect in humans of the inha "There is sufficient information to conclud persons with silicosis (and, apparently, no	Committee on Occupational Exposure Limits) concluded alation of respirable crystalline silica dust is silicosis. le that the relative risk of lung cancer is increased in ot in employees without silicosis exposed to silica dust in erefore, preventing the onset of silicosis will also reduce inal, June 2003)		
Chronic effects	inhaled from occupational sources can ca overall evaluation, IARC noted that "carci circumstances studied. Carcinogenicity m crystalline silica or on external factors affe polymorphs." (IARC Monographs on the	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)		

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BENTONITE (CAS 1302-78	-9)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	19000 mg/l, 96 hours
Persistence and degradability	No data is	s available on the degradability of this prod	luct.
Bioaccumulative potential	No data a	vailable.	
Mobility in soil	No data a	vailable.	
Other adverse effects		adverse environmental effects (e.g. ozone endocrine disruption, global warming pote	

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Material should be recycled if possible.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

#### TDG

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR. **Controlled Drugs and Substances Act** Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. **Greenhouse Gases** Not listed. **Precursor Control Regulations** Not regulated. International regulations Stockholm Convention Not applicable. **Rotterdam Convention** Not applicable. Kyoto protocol Not applicable. **Montreal Protocol** Not applicable. **Basel Convention** Not applicable. International Inventories On inventory (yes/no)\* Country(s) or region Inventory name Australia Australian Inventory of Chemical Substances (AICS) No Canada Domestic Substances List (DSL) No Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical No Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No Philippines Philippine Inventory of Chemicals and Chemical Substances No (PICCS) Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information

Issue date	24-July-2018
Revision date	24-July-2018
Version #	11
Further information	This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.
	Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. CETCO, an MTI Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Composition / Information on Ingredients: Additional Components Regulatory Information: United States GHS: Classification