

SAFETY DATA SHEET

1. Identification

Product identifier	Vacuum Tower Asphalt Extender
Other means of identification	
Product code	520
Synonyms	Asphalt Extender ; Asphalt Flux ; Vacuum Tower Bottoms ; REOB
Recommended use	Asphalt additive.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Company name	Heritage-Crystal Clean, LLC
Address	2175 Point Boulevard Suite 375
	Elgin, IL 60123-9211
Telephone	Technical questions: 877-938-7948
Website	www.crystal-clean.com
E-mail	cc_ehs@crystal-clean.com
Emergency telephone	CHEMTREC: 800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Hazardous to the aquatic environment, acute Category 3 hazard
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Harmful to aquatic life.
Precautionary statement	
Prevention	Avoid release to the environment.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Hydrogen sulfide (H2S) can accumulate in the headspace of storage tanks and reach potentially hazardous concentrations. Contact with molten material may cause thermal burns.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Lubricating oils, used, residues	129893-17-0	< 100
Hydrogen sulfide	7783-06-4	< 0.1

Composition comments

All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

4. First-aid measures	
Inhalation	If fumes from heated product are inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation develops and persists. If hot product contacts skin, cool under running water and get medical attention.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists. If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Symptoms of exposure to fumes from heated material may include: Irritation of nose and throat. Coughing. Shortness of breath. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Contact with hot material can cause thermal burns which may result in permanent damage. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. Hydrogen sulfide impairs olfactory nerve function above 20 ppm, odor warning property (rotten egg smell) lost at higher concentrations.
Indication of immediate medical attention and special treatment needed	Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Caution should be exercised when using water or foam as frothing may occur, especially if directed onto containers of hot or burning material.
Specific hazards arising from the chemical	During fire, hazardous combustion products are released that may include: Carbon oxides. Sulfur oxides. Hydrogen sulfide. Unidentified organic compounds. Hot product is a vapor explosion hazard indoors, outdoors, or in sewers. Vapors or gases may ignite at distant ignition sources and flash back. Most vapors are heavier than air and will spread along ground and collect in low or confined areas (drains, basements, tanks). Runoff may create fire or explosion hazard. Sealed containers may rupture when heated.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Will burn if involved in a fire.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing vapours, mist or gas. Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content, hydrogen sulfide (H2S) and flammability. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For parsonal protection, soo soction 8 of the SDS

personal protection, see section 8 of the SDS.

residual contamination.

entering drains. Stop the flow of material, if this is without risk.

with a clean, sparkproof tool into a sealable container for disposal.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). The product is immiscible with water and will spread on the water surface. Prevent product from

Cooled product: collect and dispose in proper container. Clean surface thoroughly to remove

Hot product: contain spill as a liquid for possible recovery, or absorb with sand or earth and shovel

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Methods and materials for

containment and cleaning up

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. 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

This product is normally handled at high temperatures. Vapors from hot material may be explosive. Do not smoke, use open fire or other sources of ignition. Use non-sparking tools and explosion-proof equipment. All equipment used when handling the product must be grounded or bonded to ground. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharges. Do not pressurize, cut, weld, braze, solder, drill, or grind on containers. Keep away from water when loading and unloading. Use dry container to avoid violent eruptions and splattering of hot product.

Avoid contact with hot or molten material. Avoid inhalation of fumes from molten product. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. When petroleum asphalt products are heated, potentally irritating emissions (fumes, mists, and vapors) may be released. Hydrogen sulfide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning. Tripping incidences have occured because of asphalt builup on bottoms of shoes and boots; buildup should be removed regularly to prevent such incidences. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in cool, dry, well ventilated area. Outside or detached storage preferred. Vapors containing hydrogen sulfide may accumulate during storage or transport of asphaltic materials. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-2 (29 C Components	FR 1910.1000) Type	Value
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	20 ppm
US. ACGIH Threshold Lin Components	nit Values Type	Value
Hydrogen sulfide (CAS 7783-06-4)	STEL	5 ppm
	TWA	1 ppm
US. NIOSH: Pocket Guide	e to Chemical Hazards	
Components	Туре	Value
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	15 mg/m3
		10 ppm
iological limit values	No biological exposure limits noted	for the ingredient(s).
ppropriate engineering ontrols	applicable, use process enclosures	used. Ventilation rates should be matched to conditions. If local exhaust ventilation, or other engineering controls to mmended exposure limits. Provide easy access to water
ndividual protection measure	es, such as personal protective equip	
Eye/face protection		ds (or goggles). Contact lenses are not recommended. Wear a naterial. Wear a full-face respirator, if needed.
Skin protection Hand protection	When handling hot material, use he	at resistant gloves.
Skin protection Other	Thermally protective apron and long significant. Chemical resistant boots	g sleeves are recommended when volume of hot material is 5.

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use NIOSH certified P-, or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air-purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134. Consult a qualified industrial hygienist or Safety Professional for respirator selection guidance.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

, ,	•
Appearance	
Physical state	Solid or semi-solid.
Form	For hot products: Viscous, semi-solid. For cooled products: Solid.
Color	Black.
Odor	Rotten egg.
Odor threshold	0.1 ppm (Based on Hydrogen sulfide)
рН	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	550 °F (287.8 °C)
Flash point	500.0 - 520.0 °F (260.0 - 271.1 °C) D92 COC
Evaporation rate	Not available.
Flammability (solid, gas)	Will burn if involved in a fire.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	0.2 mmHg (175 °F (79.44 °C))
Vapor density	Not available.
Relative density	0.943 ASTM D4042 (H2O=1)
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	905 °F (485 °C) (based on similar material)
Decomposition temperature	Not available.
Viscosity	80 cSt ASTM D445 (212 °F (100 °C))
Other information	API Gravity 18.6 (60°F(15.6°C)) (ASTM D4042)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Pounds per gallon	7.85 lb/gal
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Contact with water can cause violent eruptions, splatter hot material, or ignite flammable materials.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Acids, alkalis, oxidizing agents, reactive halogens, or reactive metals. Water. Avoid volatile

Acids, alkalis, oxidizing agents, reactive halogens, or reactive metals. Water. Avoid volatile solvents because contact may cause vapors from hot products to ignite.

Vacuum Tower Asphalt Extender

11. Toxicological information

likalı - **F**.

Information on likely routes of e	xposure	
Inhalation	Prolonged inhalation may be harmful. At elevated ter respiratory tract. Inhaling hydrogen sulfide released f vomiting, headaches, dizziness, loss of coordination, death or other central nervous system effects.	rom this product may cause nausea,
Skin contact	Contact with hot material can cause thermal burns w	hich may result in permanent damage.
Eye contact	At elevated temperatures, vapor may cause irritation thermal burns which may result in permanent damag	
Ingestion	May cause discomfort if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms of exposure to fumes from heated materia Coughing. Shortness of breath. Symptoms of overex tiredness, nausea and vomiting. Contact with hot ma result in permanent damage. Hydrogen sulfide, a highly toxic gas, may be present hydrogen sulfide include respiratory and eye irritation dryness and pain in the nose, and loss of consciousr indicator of the presence of hazardous levels in the a olfactory nerve function above 20 ppm, odor warning concentrations.	posure may be headache, dizziness, terial can cause thermal burns which may . Signs and symptoms of overexposure to n, dizziness, nausea, coughing, a sensation of ness. Odor does not provide a reliable atmosphere. Hydrogen sulfide impairs
Information on toxicological effe	ects	
Acute toxicity	Contains hydrogen sulfide. May rapidly cause irritation necessarily any warning odor being sensed.	on, breathing failure, coma, and death without
Components	Species	Test Results
Hydrogen sulfide (CAS 7783-06-4)		
Acute		
Inhalation		
Gas		
Gas LC50	Rat	444 ppm, 4 Hours
	Rat Not classified.	444 ppm, 4 Hours
LC50		444 ppm, 4 Hours
LC50 Skin corrosion/irritation Serious eye damage/eye	Not classified. Not classified.	444 ppm, 4 Hours
LC50 Skin corrosion/irritation Serious eye damage/eye irritation	Not classified. Not classified.	444 ppm, 4 Hours
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization	Not classified. Not classified.	
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization	Not classified. Not classified. Not a respiratory sensitizer.	on.
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Skin sensitization	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compone	on.
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compone mutagenic or genotoxic.	on.
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity IARC Monographs. Overall I Not listed. NTP Report on Carcinogens	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compose mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity	on.
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Skin sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity IARC Monographs. Overall I Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulate	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compose mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity	on.
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Skin sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity IARC Monographs. Overall I Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulate Not listed.	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compose mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity	on. ents present at greater than 0.1% are
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity IARC Monographs. Overall I Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulate Not listed. Reproductive toxicity	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compone mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1053) This product is not expected to cause reproductive of	on. ents present at greater than 0.1% are
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Skin sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity IARC Monographs. Overall I Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulate Not listed.	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compose mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity	on. ents present at greater than 0.1% are
LC50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity IARC Monographs. Overall I Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulate Not listed. Reproductive toxicity Specific target organ toxicity -	Not classified. Not classified. Not a respiratory sensitizer. This product is not expected to cause skin sensitizati No data available to indicate product or any compone mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1053) This product is not expected to cause reproductive of	on. ents present at greater than 0.1% are

Prolonged inhalation may be harmful. Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of

exposure.

Chronic effects

12. Ecological information

Ecotoxicity	Harmful to aquatic life.			
Components		Species	Test Results	
Hydrogen sulfide (CAS 7783	-06-4)			
Aquatic				
Acute				
Crustacea	EC50	Crustacea	0.042 mg/l, 48 Hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0243 mg/l, 96 hours	
Persistence and degradability	No data is	available on the degradability of this product.		
Bioaccumulative potential	No data a	vailable on bioaccumulation.		
Mobility in soil	The produ	ict is insoluble in water and has a low mobility	in the environment.	
Other adverse effects	None kno	wn.		
13. Disposal consideration	ons			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. 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.			
Local disposal regulations	Dispose ir	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		otied containers may retain product residue, fo Empty containers should be taken to an approv	6	
14. Transport information	ı			
DOT				

DOT	
UN number	UN3257
UN proper shipping name	Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (Vacuum Tower Asphalt Extender)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB1, T3, TP3, TP29
Packaging exceptions	None
Packaging non bulk	None
Packaging bulk	247
ΙΑΤΑ	
UN number	UN3257
UN proper shipping name	Elevated temperature liquid, n.o.s. at or above 100°C and below its flash point (Vacuum Tower Asphalt Extender)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	No
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG							
UN number	UN3257						
UN proper shipping name	ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100°C and below its flashpoint (Vacuum Tower Asphalt Extender)						
Transport hazard class(es)							
Class		9					
Subsidiary risk	-						
Packing group Environmental hazards	111						
Marine pollutant	No						
EmS	F-A, <u>S-P</u>						
Special precautions for use		instructions, SE	DS and emergency proc	cedures before handling	1.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not establish			-			
15. Regulatory information	n						
US federal regulations			be a "Hazardous Che 29 CFR 1910.1200.	mical" as defined by the	OSHA Hazard		
TSCA Section 12(b) Exp	oort Notificatio	on (40 CFR 707	7, Subpt. D)				
Not regulated. CERCLA Hazardous Su	bstance List (40 CFR 302.4)					
Hydrogen sulfide (CA SARA 304 Emergency r	,	ation	Listed.				
HYDROGEN SULFI			100 LBS				
OSHA Specifically Regu Not listed.	ulated Substar	nces (29 CFR 1	1910.1001-1053)				
Toxic Substances Control A	ct (TSCA)		components on the TSC	CA 8(b) inventory are de	signated "active".		
	. ,		-				
Superfund Amendments and Re	authorization	Act of 1986 (S	-				
Superfund Amendments and Re SARA 302 Extremely hazard	authorization	Act of 1986 (S ce	-	Threshold	Threshold		
Superfund Amendments and Re SARA 302 Extremely hazard	authorization	Act of 1986 (S	SARA)	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazaro Chemical name CA	authorization dous substand S number	Act of 1986 (S ce Reportable quantity (pounds)	ARA) Threshold planning quantity (pounds)	Threshold planning quantity,	Threshold planning quantity,		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous	authorization	Act of 1986 (S ce Reportable quantity	ARA) Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting)	authorization dous substand S number 33-06-4	Act of 1986 (S ce Reportable quantity (pounds)	ARA) Threshold planning quantity (pounds)	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical	authorization dous substand S number 33-06-4	Act of 1986 (S ce Reportable quantity (pounds)	ARA) Threshold planning quantity (pounds)	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting)	authorization dous substand S number 33-06-4	Act of 1986 (S ce Reportable quantity (pounds)	ARA) Threshold planning quantity (pounds)	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated.	authorization dous substand S number 33-06-4 No	Act of 1986 (S ce Reportable quantity (pounds)	GARA) Threshold planning quantity (pounds)	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated.	authorization dous substand S number 33-06-4 No	Act of 1986 (S Reportable quantity (pounds) 100	ARA) Threshold planning quantity (pounds) 500	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value		
Superfund Amendments and Re SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated.	authorization dous substand S number 33-06-4 No 112 Hazardou 112(r) Accide	Act of 1986 (S Reportable quantity (pounds) 100	ARA) Threshold planning quantity (pounds) 500	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value		
Superfund Amendments and Resonance SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77) Safe Drinking Water Act	authorization dous substand S number 33-06-4 No 112 Hazardou 112(r) Accide	Act of 1986 (S Reportable quantity (pounds) 100	ARA) Threshold planning quantity (pounds) 500	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value		
Superfund Amendments and Resonance SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77) Safe Drinking Water Act (SDWA)	authorization dous substand S number 33-06-4 No 112 Hazardou 112(r) Accide 783-06-4) Not regulated	Act of 1986 (S Reportable quantity (pounds) 100 us Air Pollutar ental Release F	ARA) Threshold planning quantity (pounds) 500 500	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)		
Superfund Amendments and Res SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77 Safe Drinking Water Act (SDWA) FEMA Priority Substance Hydrogen sulfide (CA	authorization dous substand S number 33-06-4 No 112 Hazardou 112(r) Accide 783-06-4) Not regulated ces Respirator	Act of 1986 (S Reportable quantity (pounds) 100 us Air Pollutar ental Release F	ARA) Threshold planning quantity (pounds) 500 500	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)		
Superfund Amendments and Res SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77 Safe Drinking Water Act (SDWA) FEMA Priority Substance	authorization dous substand S number 33-06-4 No 112 Hazardou 112(r) Accide 783-06-4) Not regulated ces Respirator	Act of 1986 (S Reportable quantity (pounds) 100 us Air Pollutar ental Release F	ARA) Threshold planning quantity (pounds) 500 500 hts (HAPs) List Prevention (40 CFR 68 Safety in the Flavor M	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)		
Superfund Amendments and Resonance SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77) Safe Drinking Water Act (SDWA) FEMA Priority Substance Hydrogen sulfide (CA	authorization dous substance S number 33-06-4 No 112 Hazardou 112(r) Accide 783-06-4) Not regulated ces Respirator AS 7783-06-4) ubstance List	Act of 1986 (S Reportable quantity (pounds) 100 100 100 100 100 100	ARA) Threshold planning quantity (pounds) 500 500 hts (HAPs) List Prevention (40 CFR 68 Safety in the Flavor M	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)		
Superfund Amendments and Res SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77 Safe Drinking Water Act (SDWA) FEMA Priority Substance Hydrogen sulfide (CA	authorization dous substance S number 33-06-4 No 112 Hazardou 112(r) Accide 783-06-4) Not regulated ces Respirator AS 7783-06-4) ubstance List 783-06-4)	Act of 1986 (S Reportable quantity (pounds) 100 100 ental Release F d.	ARA) Threshold planning quantity (pounds) 500 500 hts (HAPs) List Prevention (40 CFR 68 Safety in the Flavor M High priority	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)		
Superfund Amendments and Res SARA 302 Extremely hazard Chemical name CA Hydrogen sulfide 778 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Hydrogen sulfide (CAS 77 Safe Drinking Water Act (SDWA) FEMA Priority Substance Hydrogen sulfide (CA	authorization dous substance S number 33-06-4 No 112 Hazardou 112(r) Accide 783-06-4) Not regulated ces Respirator AS 7783-06-4) ubstance List 783-06-4) Community F 783-06-4)	Act of 1986 (S Reportable quantity (pounds) 100 100 100 100 100 100 100 100 100 10	ARA) Threshold planning quantity (pounds) 500 ts (HAPs) List Prevention (40 CFR 68 Safety in the Flavor M High priority Act	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)		

US. Rhode Island RTK

Hydrogen sulfide (CAS 7783-06-4)

California Proposition 65



WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Country(s) or region	Inventory name		On inventory (yes/no)*
International Inventories			
Hydrogen sulfide (CA	S 7783-06-4)		
subd. (a))			
US. California. Candidat	e Chemicals List. Safer Cons	umer Products Regulations (Cal. Code Re	egs, tit. 22, 69502.3,
Lead (CAS 7439-92-2	1)	Listed: February 27, 1987	
California Proposition 6	5 - CRT: Listed date/Male repr	oductive toxin	
Lead (CAS 7439-92-2	1)	Listed: February 27, 1987	
California Proposition 6	5 - CRT: Listed date/Female re	eproductive toxin	
Lead (CAS 7439-92-2	1)	Listed: February 27, 1987	
California Proposition 6	5 - CRT: Listed date/Developn	nental toxin	
Nickel (CAS 7440-02	-0)	Listed: October 1, 1989	
Lead (CAS 7439-92-2	1)	Listed: October 1, 1992	
Indeno [1,2,3-cd]pyre		Listed: January 1, 1988	
Dibenz[a,h]anthracen	,	Listed: January 1, 1988	
Chrysene (CAS 218-0		Listed: January 1, 1990	
Benzo[k]fluoranthene	. ,	Listed: July 1, 1987 Listed: July 1, 1987	
Benzo[a]pyrene (CAS Benzo[b]fluoranthene	,	Listed: July 1, 1987 Listed: July 1, 1987	
BENZ[A]ANTHRACE	· · · · · · · · · · · · · · · · · · ·	Listed: July 1, 1987	

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates this product complies 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, including date of preparation or last revision

Issue date	20-June-2019
Revision date	-
Version #	01
NFPA ratings	

Disclaimer

Heritage-Crystal Clean, LLC 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.