

SAFETY DATA SHEET

1. Identification

Product identifier	Hercules Fuel Oil Sludge Treatment
Other means of identification	
Product code	7331E
Synonyms	Part Numbers: 35310, 35315, 35320
Recommended use	Fuel additive.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	Distributor information
Company Name	HCC Holdings, Inc. an Oatey Affiliate
Address	4700 West 160th Street
	Cleveland, OH 44135
Telephone	216-267-7100
E-mail	info@oatey.com
Transport Emergency	Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)
Emergency First Aid	1-877-740-5015
Contact person	MSDS Coordinator

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		

Signal word Danger Hazard statement Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Precautionary statement Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog to extinguish. Collect spillage.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Solvent naphtha (petroleum), medium aliph.	64742-88-7	55-75
2-Butoxyethanol	111-76-2	5-15
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1-5
Solvent naphtha (petroleum), light aromatic	64742-95-6	1-5
Other components below reportable levels		18.07

4. First-aid measures

Fire fighting

equipment/instructions

Skin contactcenter or doctor/physician if you feel unwell.Skin contactRemove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.Eye contactImmediately 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.IngestionCall a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.Most important symptoms/effects, acute and delayedAspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.Indication of immediate medical attention and special treatment neededProvide general supportive measures and treat symptomatically. 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. Keep victim under observation. Symptoms may be delayed.6Specific hazards mediaWater fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.0Unsuitable extinguishing media mediaWater fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as		
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Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing mist/vapors. Avoid prolonged exposure. 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. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Contaminants (29 CFR 1910.1000) Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	PEL	400 mg/m3	
		100 ppm	

US. ACGIH Threshold Lim Components	it Values	Туре			Value	Form
2-Butoxyethanol (CAS 111-76-2)		TWA			20 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)		TWA			5 mg/m3	Inhalable fraction.
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)		TWA			200 mg/m3	Non-aerosol.
US. NIOSH: Pocket Guide Components	to Chemical Haz	zards Type			Value	Form
2-Butoxyethanol (CAS 111-76-2)		TWA			24 mg/m3	
					5 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)		Ceiling]		1800 mg/m3	
		STEL			10 mg/m3	Mist.
		TWA			5 mg/m3	Mist.
Biological limit values						
ACGIH Biological Exposu Components	re Indices Value		Determinant	Specimer	n Sampling	Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g		Butoxyacetic acid (BAA), with hydrolysis	Creatinine urine	in *	
* - For sampling details, ple	ase see the sourc	ce docui	ment.			
Exposure guidelines						
US - California OELs: Skin	•		O h -	- h h		
2-Butoxyethanol (CAS US - Minnesota Haz Subs	Skin designatio	on appli	es		rough the skin.	
2-Butoxyethanol (CAS US - Tennessee OELs: Sk			Skin de	signation ap	plies.	
2-Butoxyethanol (CAS US ACGIH Threshold Lim	,	esignat		absorbed th	rough the skin.	
Solvent naphtha (petro (CAS 64742-88-7)			Can be	absorbed th	rough the skin.	
US. NIOSH: Pocket Guide		zards				
2-Butoxyethanol (CAS US. OSHA Table Z-1 Limit	s for Air Contam	inants	(29 CFR 1910.100	0)	rough the skin.	
2-Butoxyethanol (CAS					rough the skin.	
Appropriate engineering controls	Ventilation ra exhaust venti exposure limi	tes sho lation, c its. If ex	uld be matched to or other engineering	conditions. I g controls to not been es	f applicable, use maintain airborn tablished, mainta	ventilation should be used. process enclosures, local e levels below recommended in airborne levels to an
Individual protection measure Eye/face protection	-	-	otective equipmen with side shields (
Skin protection Hand protection	Wear approp supplier.	riate ch	emical resistant glo	oves. Suitab	le gloves can be i	recommended by the glove
Skin protection Other	Wear approp	riate ch	emical resistant clo	othing		
Respiratory protection			with organic vapor	-	d full facepiece	
itespirater y protootion				go an		

Thermal hazards

General hygiene considerations

Wear appropriate thermal protective clothing, when necessary.

When using do not smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Light brown.
Odor	Hydrocarbon.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	118.4 °F (48.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.8 (Water=1)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	10 cP
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	551 g/l (69% by weight)

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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.		
Components	Species Test Results		
Solvent naphtha (petroleum), med	lium aliph. (CAS 64742-88-7)		
Acute			
Dermal			
LD50	Rabbit > 2000 mg/kg		
Oral			
LD50	Rat > 5000 mg/kg		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)		3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.	
NTP Report on Carcinogen	5		
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1	001-1053)	
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
Chronic effects	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.		
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.		

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.	
Hercules Fuel Oil Sludge Treatment	SDS	JS

Components		Species	Test Results	
Solvent naphtha (petroleum)	, light aromat	ic (CAS 64742-95-6)		
Aquatic				
Acute				
Crustacea	EL50	Daphnia	4.5 mg/l, 48 hours	
Fish	LL50	Oncorhynchus mykiss	10 mg/l, 96 hours	
Persistence and degradability	No data is available on the degradability of this product.			
Bioaccumulative potential	No data a	No data available for this product.		
Partition coefficient n-octa 2-Butoxyethanol (CAS 111-7		l og Kow) 0.83		
Mobility in soil	No data a	No data available.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.			
13. Disposal consideratio	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 incinerate sealed containers. 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 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		nptied containers may retain product residue, follow label warnings even after container is Empty containers should be taken to an approved waste handling site for recycling or		

14. Transport information

DOT			
UN number	UN1993		
UN proper shipping name	Flammable liquids, n.o.s. (Petroleum distillates)		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Label(s)	3		
Packing group	III		
Environmental hazards			
Marine pollutant	Yes		
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.		
Special provisions	B1, B52, IB3, T4, TP1, TP29		
Packaging exceptions	150		
Packaging non bulk	203		
Packaging bulk	242		
ΙΑΤΑ			
UN number	UN1993		
UN proper shipping name	Flammable liquid, n.o.s. (Petroleum distillates)		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Packing group	III		
Environmental hazards	Yes		
ERG Code	3L		
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.		
IMDG			
UN number	UN1993		
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Petroleum distillates)		

Transport hazard class(es) Class Subsidiary risk Packing group Environmental hazards Marine pollutant EmS Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code General information	Not established.	ons, SDS and emergenc rine Pollutant. DOT Regu		
15. Regulatory information	1			
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
TSCA Section 12(b) Exp Not regulated. CERCLA Hazardous Sul 2-Butoxyethanol (CA: SARA 304 Emergency re Not regulated. OSHA Specifically Regu Not listed.	ostance List (40 CFR S 111-76-2) elease notification	302.4) Listed.		
Toxic Substances Control A	ct (TSCA)	All components of the "active".	mixture on the TSCA 8(b) inventory are design	nated
Superfund Amendments and Rea SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories	ous substance Yes Flammable (gases, a Skin corrosion or irrit Serious eye damage Respiratory or skin s	erosols, liquids, or solids ation or eye irritation		
SARA 313 (TRI reporting)	Aspiration hazard			
Chemical name		CAS number	% by wt.	
2-Butoxyethanol		111-76-2	5-15	
Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act			FR 68.130)	
(SDWA)	Hot rogulatou.			
US state regulations				
US. Massachusetts RTK - Su 2-Butoxyethanol (CAS 11 Distillates (petroleum), hy US. New Jersey Worker and 2-Butoxyethanol (CAS 11 Solvent naphtha (petroleu US. Pennsylvania Worker an	1-76-2) drotreated heavy naph Community Right-to 1-76-2) m), medium aliph. (CA	-Know Act S 64742-88-7))	
2-Butoxyethanol (CAS 11				

US. Rhode Island RTK

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-Butoxyethanol (CAS 111-76-2) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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	23-April-2015
Revision date	20-May-2019
Version #	02
HMIS® ratings	Health: 3 Flammability: 2 Physical hazard: 0
NFPA ratings	2 0

Disclaimer

HCC Holdings Inc. an Oatey Affiliate 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.