ACEiT™ Industries, Inc. encourages and expects you to read and understand the entire Safety Data Sheet (SDS), as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or action. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

1. IDENTIFICATION

Product name: ACEiT™ Plus Concrete Additive

Recommended use of the chemical and restrictions on use
Identified uses: Thickener, Binder, Film-former,Hydration Enhancer, Water Reducer, and Processing Finishing Aid for use in low water cement ratio compactable finished concrete.

COMPANY: ACEiT™ Industries, Inc.
1970 Laurel Valley Drive,
Keller, TX 76248 USA
Website: www.aceitusa.com
Phone number: 469-992-4739
E-mail: fred@aceitusa.com

EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Contact: 469-992-4739
Local Emergency Contact: 469-992-4739

2. HAZARDS IDENTIFICATION

Hazard classification

GHS: Aspiration Hazard (2); Skin corrosion/irritation (3); Serious eye damage/eye irritation (2B)
This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200 (Combustible dust)

GHS Pictogram:

Signal Words: **WARNING**

Hazard Statements:
May be harmful if swallowed or enter airways
May cause damage to organs; lungs through prolonged or repeated exposure
Causes mild skin irritation
Causes eye irritation

Precautionary Statements:

Read label before use.
Keep out of reach of children.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Wear protective gloves, eye and face protection.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
Keep away from heat/sparks/open flames/hot surfaces.

Other hazards

Slipping hazard
Powdered material may form explosive dust-air mixture.
No smoking. Ground/bond container and receiving equipment.
Use explosion proof electrical/ventilating/lighting equipment.
Take precautionary measures against static discharge.
Do not breathe dust. In case of inadequate ventilation wear respiratory protection.
Dispose of contents in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Quartz	14808-60-7	<1.00

***The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Move person to fresh air; if effects occur, consult a physician, drink plenty water.

Ingestion: Wash out Mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Skin contact: Wash off with plenty of soap and water.

Eye contact: Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training.

Notes to physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately, if large quantities have been ingested or inhaled

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water - Dry chemical fire extinguishers - Carbon dioxide fire extinguishers.

Unsuitable extinguishing media: no data available

Special hazards arising from the substance or mixture: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Isolate area. Material becomes slippery when wet. Use appropriate safety equipment. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8)

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform relevant authorities if the product has caused environmental pollution (Sewers, Waterways, soil or air)

Large Spill: Stop leak if without personal risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite, or diatomaceous earth. Dispose of via a licensed waste disposal contractor.

Small Spill: Stop leak if without personal risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if the material is water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use good general industrial hygiene practices for handling. Wash thoroughly after handling. Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventllated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

Quartz	PEL 0.1 mg/m^3
	ACGIH 0.025 mg/m^3

Engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere of biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory: Non required.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Powder
Color	white to tan
Odor	characteristic
Odor Threshold	N/A
pH (5% soln in H_2O)	7 - 9
Melting point/range	N/A
Freezing point	N/A
Boiling Point (760 mmHg)	N/A
Flash point	N/A
Evaporation Rate	N/A (**Butyl Acetate = 1**)
Lower explosion limit	N/A
Upper explosion limit	N/A
Vapor Pressure	N/A
Relative Vapor Density (air=1)	N/A

Relative Density (water = 1)	N/A
Water solubility	partially soluble in water/limited by viscosity
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Molecular weight	mixture
Percent volatility	N/A

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: no data available.

Chemical stability: Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Avoid temperatures above 130°C (266°F) Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.

Incompatible materials: Avoid contact with oxidizing materials. Avoid contact with: Strong acids. Strong bases.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appears in this section when such data is available.

Acute toxicity

Acute oral toxicity
Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

For similar material(s):
LD50, Rat, > 10,000 mg/kg

Acute dermal toxicity
Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product:
The dermal LD50 has not been determined.

Acute inhalation toxicity
No adverse effects are anticipated from single exposure to dust. For respiratory irritation and narcotic effects: No relevant data found.

Skin corrosion/irritation
Essentially nonirritating to skin

Serious eye damage/eye irritation
Solid or dust may cause irritation or corneal injury due to mechanical action.

Sensitization
For skin sensitization: No relevant data found.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
Repeated ingestion of similar cellulosics by humans has not resulted in known significant adverse effects.

Carcinogenicity
Similar cellulosics did not cause cancer in long-term animal studies.

Teratogenicity
Similar cellulosics did not cause birth defects or other toxic effects to the fetus in laboratory animal studies.

Reproductive toxicity
In animal studies, a similar cellulosic has been shown not to interfere with reproduction.

Mutagenicity
Similar cellulosics were negative in both in vitro and animal genetic toxicity studies.

Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Eco-toxicological information on this product or its components appears in this section when such data is available.

Toxicity

Acute toxicity to fish
For similar material(s): Not expected to be acutely toxic to aquatic organisms.

Persistence and degradability

Biodegradability: Material is not readily biodegradable according to OECD/EEC guidelines.
10-day Window: Fail
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301E or Equivalent
10-day Window: Not applicable
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 302B or Equivalent

Bio-accumulative potential
Bioaccumulation: No bio-concentration is expected because of the relatively high molecular weight (MW greater than 1000).

Mobility in soil
No data available.

13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER - All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.
THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler - Re-claimer - Incinerator or other thermal destruction device - Landfill.

14. TRANSPORT INFORMATION

United States Department of Transportation (U.S. DOT)
Not Regulated

International Maritime Dangerous Goods (IMO / IMDG)
Not Regulated

Interntational Air Transport Association (IATA)
Not Regulated

Transportation of Dangerous Goods (TDG)
Not Regulated

Agreement on Dangerous Goods by Road (ADR)
Not Regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard
This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. See Section 2

RCRA: Material is not defined as a hazardous waste per 40 CFR 261

CERCLA: Material is not reportable under CERCLA; local requirements may vary.

SARA: 311/3/312 Hazard Categories – Immediate and Delayed Health;
313 Reportable Ingredients - NONE

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103
This material does not contain any components with a CERCLA RQ.

Pennsylvania Worker and Community Right-To-Know Act:
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
This product contains listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)
All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

EU REACh Regulations: Exempted in accordance with Annex V.7

WHIMIS: ACEiT Additive products do meet the criteria for WHMIS classification and thus not included on the disclosure list.

Additional regulatory information available on request

16. OTHER INFORMATION

Product Literature
Additional information on this and other products we offer may be obtained by contacting us. Ask for a product information brochure or data on how to access our website.

HMIS LABEL

HEALTH	1
FIRE	1
PHYSICAL HAZARD	0
PPE	E

Revision

Identification Number: 101225217 / A001 / Issue Date: 04/24/2015 / Version: 5.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACEiT IHG	ACEiT Industrial Hygiene Guideline		
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	N/A	Not Available

DISCLAIMER:

ACEiT™ Industries, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer- specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.