



# SAFETY DATA SHEET

Prepared in accordance with the United States Hazard Communication Standard: 29 CFR 1910.1200 (2012)

Revision date: 18-Apr-2017

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: Cesium Formate Solution  
Product code: CESFORMSOL  
Synonyms: CsCOOH-H<sub>2</sub>O, Cesium Formate Brine  
Recommended use: Drilling & completion fluids: Industrial Products  
Restrictions on use: Not Applicable.

Supplier:

Tantalum Mining Corporation of Canada, Ltd. (TANCO) Bernic Lake Box 2000 Lac du Bonnet, MB R0E 1A0 CANADA Tel: 1-204-884-2400 Fax: 1-204-884-2211	Cabot Specialty Fluids C/O Cabot Corporation 4400 North Point Parkway Suite 200 Alpharetta, Georgia 30022 United States Tel: +1 678 297 1300 E-mail: csf.americas@cabotcorp.com
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Emergency Telephone Number: 24H/7d service  
US: CHEMTREC: 1-800-424-9300 or 1-703-527-3887  
Canada: CANUTEC 1-613-996-6666  
International CHEMTREC: +1 703-741-5970 or +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status: This chemical is considered hazardous by the United States 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral: Category 4

Serious eye damage/eye irritation: Category 2A

Reproductive Toxicity: Category 2

Specific target organ toxicity (repeated exposure): Category 2

Label Elements:



Signal Word:

WARNING

Hazard statements:

Harmful if swallowed  
Causes serious eye irritation  
Suspected of damaging fertility  
May cause damage to organs (kidneys, adrenals, nervous system, blood) through prolonged or repeated exposure

Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Do not breathe mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

Precautionary Statements - Response • IF exposed or concerned: Get medical advice/attention

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth

Precautionary Statements - Storage

- Store locked up

Precautionary Statements - Disposal

- Dispose of contents/container in accordance with local, regional, national, and international regulations

Hazards not otherwise classified (HNOC) Please refer to hazard and precautionary statements above.

### Potential health effects

Principle Routes of Exposure:

Eye contact, Skin Contact, Inhalation

Skin Contact:

May cause irritation. Avoid contact with skin.

Inhalation:

Due to its liquid state, this material is not expected to be a significant inhalation hazard. Aerosols or dried product may be irritating to respiratory tract. Do not breathe dust, vapors or mist.

Ingestion:	Adverse effects on multiple organ systems were observed in animals following repeated oral exposure to cesium formate. However, these effects would not be expected under normal handling conditions. See Section 11.
Reproductive Effects:	Male Reproductive System. See Section 11.
Carcinogenicity:	Does not contain any substances listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference of Governmental Industrial Hygienists) or EU (European Union). See also Section 11.
Target Organ Effects:	Eyes, Skin, Respiratory system, Kidney, Adrenal gland
Medical Conditions Aggravated by Exposure:	Respiratory disorder, Adrenal gland disorders
Potential Environmental Effects:	None known. See Section 12.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: CsCOOH-H<sub>2</sub>O, Cesium Formate Brine.

Chemical name	CAS No	weight-%	Trade secret
Cesium Formate	3495-36-1	60-84	-
Water	7732-18-5	16-40	-
Carbonate and bicarbonate salts of sodium and/or potassium	VARIOUS	0-5	-

Other Information:

The hyphen (-) means "not applicable"

Cesium Formate may contain up to 5% of "other alkali formates" as impurities resulting from our production process. Those alkali formates are not intentionally added in our cesium formate brine but are part of our substance "Cesium Formate" (per the definition of a substance in National Chemical Substance Control Law) and cannot be removed from the material. Those impurities have been tested as part of our product.

### 4. FIRST AID MEASURES

#### FIRST AID MEASURES

Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Seek medical attention if redness, swelling, itching, or burning occurs.
Eye contact	Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if redness, swelling, itching, burning or visual disturbances occur.

Inhalation If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

Ingestion Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in Section 2 and/or in Section 11.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use foam, carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. A fog is recommended if water is used.

Unsuitable Extinguishing Media: None known.

Specific hazards arising from the chemical: Burning produces irritant fumes.

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of Cesium.

Protective equipment and precautions for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment.

Risk of Dust Explosion: Not Applicable: Cesium Formate Brine is an aqueous solution

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid formation of dust and aerosols. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.

#### Environmental Precautions:

Environmental Precautions: Contain spill if safe to do so. Local authorities should be advised if significant spillages cannot be contained. See also Section 13.

#### Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. See Section 13.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Do not breathe aerosols or dust from dried material. Provide appropriate exhaust ventilation at machinery and at places where dust, aerosol, or mist can be generated. Avoid ingestion. Avoid prolonged or repeated exposure.

General hygiene considerations: Wash the hands and the face carefully after handling. Contaminated clothes have to be changed and washed before reuse

#### Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Do not store together with strong oxidizing agents.

Incompatible materials: Strong oxidizing agents, Platinum catalysts. NBR or Viton type elastomers at high temperature and long exposure times.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines: There are no exposure limits identified for this product.

Engineering Controls: Ensure adequate ventilation to minimize exposures.

#### Personal protective equipment [PPE]

Respiratory Protection: Approved respirator may be necessary if local exhaust ventilation is not adequate. Respiratory protection in accordance with EN 149 and OSHA 1910.134.

Hand Protection: Wear suitable gloves (in accordance with EN 374 and OSHA 1910.138): Impervious gloves. Nitrile rubber gloves. PVC or rubber gloves. PVC or other plastic material gloves.

Eye/face Protection: Eye / face protection in accordance with EN 166 and OSHA 1910.133: Wear safety glasses with side shields (or goggles). Wear face-shield if splashes are likely to occur.

Skin and Body Protection: Wear chemical impervious protective clothing if skin contact may occur.

Other: Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

Environmental exposure controls: In accordance with all local legislation and permit requirements.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Odor:	None.
Appearance:	Colorless Liquid	Odor threshold:	Not Applicable
Color:	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	9 - 11	(measured in 1:10 dilution with water)
Melting point/freezing point:	0 - 5.1 °C	According to OECD 102/EU Method A.1
Boiling point / boiling range:	112 °C - 145 °C	See Cabot Specialty Fluid's Formate Technical Manual
Evaporation Rate:	< 0	@ 20 °C

Vapor pressure:	400 - 2250 Pa	acc. to OECD 104
Vapor Density:		No information available
Density:	1.05-2.40 g/cm <sup>3</sup>	
Bulk Density:		No information available
Specific Gravity at 20°C:	1.05-2.40	@ 15.6 °C See Cabot Specialty Fluid's Formate Technical Manual
Water solubility:	84.6 - 86.6%	@ 20+/- 0,5 °C
Solubility(ies):		See Cabot Specialty Fluid's Formate Technical Manual
Partition Coefficient (n-octanol/water):	< -2.20	No potential to bioconcentrate
Decomposition temperature:	> 200 °C	See Cabot Specialty Fluid's Formate Technical Manual
Viscosity:	1.7 - 10 cP	@ 20 °C
Kinematic viscosity:		No information available
Dynamic viscosity:		No information available
Oxidizing Properties:	Mild reducing agent, which when in contact with oxidants, can react vigorously	
Softening point:		Not Applicable
VOC content (%):		Not Applicable
% Volatile (by Volume):		No information available
% Volatile (by Weight):		No information available
Surface Tension:	72.4 mN/m	at 21.0 ± 0.5°C for a 1.04 g/l solution.
Explosive properties:		Not Applicable. Aqueous solution with low vapour pressure No chemical groups associated with flammable or explosive properties
Flash Point:		Not Applicable.
Flammability (solid, gas):		Not Applicable
Flammability Limit in Air:		Not flammable
Explosion Limits in Air - Upper (g/m <sup>3</sup> ):		Not Applicable
Explosion Limits in Air - Lower (g/m <sup>3</sup> ):		Not Applicable
Autoignition Temperature:		Not Applicable.
Minimum Ignition Temperature:		Not Applicable
Minimum Ignition Energy:		Not Applicable
Ignition Energy:		No information available
Maximum Absolute Explosion Pressure:		Not Applicable
Maximum Rate of Pressure Rise:		Not Applicable
Burn Velocity:		Not Applicable
Kst Value:		Not Applicable
Dust Explosion Classification:		Not Applicable
"No information available" indicates testing has not been performed. Endpoint is listed "Not Applicable" due to the nature of the product: Aqueous solution with low vapour pressure		

## 10. STABILITY AND REACTIVITY

Reactivity:	Reacts with strong oxidizers.
Stability:	Stable under recommended handling and storage conditions.
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.

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Conditions to avoid:	Avoid contact with strong oxidizing agents. During long exposures to high temperatures, and in contact with certain catalysts, some liberation of gasses (H <sub>2</sub> and CO) might occur. The greatest risk exists when dry formate powder is contacted by a platinum catalyst. Users are advised to obtain the Cabot Specialty Fluid's (CSF) Formate Technical Manual, Section A13 from a CSF representative for more detailed information on conditions to avoid. CSF does not recommend retorting formate solutions to determine solids content as temperatures may exceed 500 °C. The use of rupture disks is recommended as a precautionary measure when conducting heat aging of formate solutions at temperatures above 150 °C.
Incompatible materials:	Strong oxidizing agents, Platinum catalysts. NBR or Viton type elastomers at high temperature and long exposure times.
Explosion data	See also Section 9.
Sensitivity to Mechanical Impact:	None.
Sensitivity to Static Discharge:	None.
Hazardous decomposition products:	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Oxides of Cesium.

## 11. TOXICOLOGICAL INFORMATION

*Information given is based on data obtained from this substance or from similar substances.*

### Acute toxicity

Oral LD50:	LD50/oral/rat > 300 mg/kg and < 2000 mg/kg. (OECD 401 and OECD 420).
Inhalation LC50:	No data are available on the product itself
Dermal LD50:	LD50/dermal/rat = >2000 mg/kg. (OECD 402).
Skin corrosion/irritation:	Skin irritation test, rabbit (OECD 404): Not irritating
Serious eye damage/eye irritation:	Primary eye irritation test in rabbit (OECD 405): Irritating to eyes.
Sensitization:	Not sensitizing based on Local Lymph Node Assay (OECD 429).
Mutagenicity:	Not mutagenic in Ames test. (OECD 471). Negative in chromosome aberration test in human lymphocytes. (OECD 473). Negative in mouse lymphoma assay. (OECD 476).
Carcinogenicity:	Does not contain any substances listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference of Governmental Industrial Hygienists) or EU (European Union).
Reproductive Toxicity:	Effects observed in ovaries and testes at 500 mg/kg/d in a 28-day oral repeated dose study in rats. No effects were observed on reproductive organs at the two lower doses (150 and 15 mg/kg/d).

Based on a 90-day oral repeated dose toxicity study (OECD 408) on a similar substance (cesium chloride), this product is classified as Reproductive Toxicity Category 2 -

suspected of damaging fertility. Male and female rats were used in the study. Effects on reproductive organs and reproductive cycles were seen only in males. The reproductive effects were generally secondary to other toxic effects on adrenals and kidneys. The No Observed Adverse Effect Level (NOAEL) for reproductive effects is equivalent to 10 mg Cs/kg bodyweight/day.

Developmental toxicity:	Based on the results of a Prenatal Developmental Toxicity Study (OECD 414) on a similar substance (cesium hydroxide), this product is not considered a developmental toxicant.
STOT - single exposure:	Effects on the central nervous system were observed in rats following a single oral exposure to 1250 mg/kg and higher.
STOT - repeated exposure:	In a 28-day oral study in rats, effects were observed in multiple organ systems at the high dose (500 mg/kg/d). Signs of neurotoxicity were also observed. Elevated reticulocyte count and effects on the heart, liver, spleen and serum biochemistry were observed at the middle dose (150 mg/kg/d). Elevated reticulocyte count was the only effect observed at the low dose (15 mg/kg/d). (OECD 407).  Based on a 90-day oral repeated dose toxicity study (OECD 408) on a similar substance (cesium chloride), this product is classified as STOT-RE Category 2 - may cause damage to multiple organs (kidneys and adrenals) through prolonged or repeated exposure. The No Observed Adverse Effect Level (NOAEL) for kidney and adrenal effects is equivalent to 10 mg Cs/kg bodyweight/day.
Aspiration Hazard:	Based on industrial experience and available data, no aspiration hazard is expected.

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	<p>MARINE</p> <p>Pacific oyster (<i>Crassostrea gigas</i>) EC50 (24 hr) = 1200 mg/l  Marine copepod (<i>Acartia tonsa</i>) EC50 (48 hr) = 340 mg/l  Marine algae (<i>Skeletonema costatum</i>) EbC50 (72 hr) = 710 mg/l; ErC50 (0-72hr) = 1600 mg/l; NOEC = 320mg/l  Brown shrimp (<i>Crangon crangon</i>) LC50 (96 hr) = 875 mg/l  Juvenile turbot (<i>Scophthalmus maximus</i>) LC50 (96 hr) = 260 mg/l  Ctenogobius gymnauchen LC50 (96 hr) = 861.5 mg/l  Amphipod (<i>Corophium volutator</i>) LC50 (10 day) = 6653 mg/kg  Mysid shrimp (<i>Mysidopsis bahia</i>) LC50 (48 hr) = 521 mg/l  Mysid shrimp (<i>Mysidopsis bahia</i>) IC25 growth (7 day) = 260 mg/l, NOEC growth = 252 mg/l; IC25 survival (7 day) = 359 mg/l, NOEC survival = 420 mg/l  Inland Silverside (<i>Menidia beryllina</i>) LC50 (96 hr) = 787 mg/l  Inland Silverside (<i>Menidia beryllina</i>) IC25 growth (7 day) = 440 mg/l, NOEC growth = 252 mg/l; IC25 survival (7 day) = 471 mg/l, NOEC survival = 420 mg/l</p> <p>FRESHWATER</p> <p>Zebra fish (<i>Brachydanio rerio</i>) LC50 (96 hr) &gt;100 mg/l  Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50 (96 hr) = 2100 mg/l  Water flea (<i>Daphnia magna</i>) EC50 (48 hr) &gt; 100 mg/l  Freshwater algae (<i>Desmodesmus subspicatus</i>, formerly <i>Scenedesmus subspicatus</i>) ErC50 (0-72 hr) = 110 mg/l; NOEC = 56 mg/l  Freshwater algae (<i>Pseudokirchneriella subcapitata</i>, formerly <i>Selenastrum capricornutum</i>)</p>
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ErC50 (0-72 hr) = 110 mg/l; NOEC = 18 mg/l

Other Information: In the majority of marine species, this material has not demonstrated toxicity and has received a rating of GOLD/SILVER/SILVER for drilling products and GOLD for Completion/Workover products under the PARCOM Harmonized Offshore and Chemical Notification Format (HOCNF)

ENVIRONMENTAL FATE

## Persistence and degradability

## READILY BIODEGRADABLE

Ready Biodegradability in Sea Water - Closed Bottle Test (OECD Method 306) = 79% degradation after 28 days

Ready Biodegradability in Sea Water - Closed Bottle Test (OECD Method 306) = 66% degradation after 28 days

Ready Biodegradability in Freshwater - Closed Bottle Test (OECD Method 301D) = 83% degradation after 28 days

Ready Biodegradability in Freshwater - Closed Bottle Test (OECD Method 301D) = 79% degradation after 28 days

## Bioaccumulation

Log Pow = &lt; - 2,20 (no potential to bioconcentrate). See also Section 9.

## Mobility:

No information available.

## Distribution to Environmental Compartments:

No information available.

## Other adverse effects:

No other data are available.

### 13. DISPOSAL CONSIDERATIONS

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this SDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations. The person generating waste must determine its proper classification

## RCRA:

Unused product would be considered a hazardous waste under U.S. RCRA, 40 CFR 261.

## Unused and Uncontaminated Product:

Waste codes should be assigned by the user based on the application for which the product was used. The unused material would be considered a hazardous waste.

## Disposal considerations:

Product, as supplied, should be disposed of in accordance with the regulations issued by the appropriate federal, state and local authorities. Same consideration should be given to containers and packaging.

### 14. TRANSPORT INFORMATION

DOT

UN Number:	Not regulated
Proper Shipping Name	Not regulated
UN/ID no	Not regulated

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Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

ICAO (air)

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

IATA

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

IMDG

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

RID

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

ADR

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

IMO IBC Code: Cesium Formate - Provisionally assessed as: Pollution Category Z, Ship Type 3, with additional requirement 15.19.6.

## 15. REGULATORY INFORMATION

### *Hazard Classification*

United States - OSHA (29 CFR 1910.1200): Hazardous

Canada - WHMIS Classification (HPR, Hazardous: See Section 2 for Hazard Classification SOR/2015-17)

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the M/SDS contains all the information required by the Hazardous Products Regulations

### International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory	Complies
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List	Complies
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances	Complies
ENCS - Japan Existing and New Chemical Substances	Does not comply
IECSC - China Inventory of Existing Chemical Substances	Does not comply
KECL - Korean Existing and Evaluated Chemical Substances	Does not comply
PICCS - Philippines Inventory of Chemicals and Chemical Substances	Does not comply
AICS - Australian Inventory of Chemical Substances	Complies
NZIoC - New Zealand Inventory of Chemicals	Does not comply
TCSI - Taiwan Chemical Substance Inventory	Complies

Note: Cabot Corporation holds a low volume notification certificate from China and is allowed to import Cesium Formate substance up to 10 tonnes per year.

### US Federal Regulations

#### SARA Section 302 (40 CFR 355) Extremely Hazardous Substances:

No components are listed as extremely hazardous substances under SARA Section 302.

#### SARA 311/312 Hazard Categories

Acute Health Hazard	YES
Chronic Health Hazard	YES
Fire hazard	NO
Sudden release of pressure hazard	NO
Reactive Hazard	NO

#### SARA Section 313 (40 CFR 372) Toxics Release Inventory

Does not contain any of the substances identified under Section 313 as toxic chemicals in excess of the de minimis concentrations necessary to be subject to the supplier notification requirements.

#### Clean Air Act Amendments of 1990

##### (CAA, Section 112, 40 CFR 82):

This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor

#### CWA (Clean Water Act)

This product does not contain any listed Priority Pollutants.

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### Food and Drug Administration (FDA)

Not permitted.

#### Pharmaceutical Information

Not permitted.

### *US State Regulations*

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### *U.S. State Right-to-Know Regulations*

This product does not contain any substances regulated by state right-to-know regulations.

## 16. OTHER INFORMATION

#### References:

MARPOL 73/78, Latest edition of Marine Environment Protection Committee (MEPC) Circulars MEPC.2/Circular, IBC Code, IMO Resolution A.673(16) Guidelines for the Transport and Handling of Limited Amounts of Hazardous and Noxious Liquid Substances in bulk on Offshore Support Vessels.

Contacts: See Section 1

#### Disclaimer:

The information set forth is based on information that Cabot Corporation believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and Cabot assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

Prepared by: Cabot Corporation - Safety, Health and Environmental Affairs  
Revision date: 18-Apr-2017  
Previous Revision Date: 13/August/2015

Reason for Revision: Hazard classification change. Revisions throughout

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End of Safety Data Sheet