

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

1436338		CerMark ULTRA 2oz. Aerosol	
Product specification	RS_FP_606438	Revision Date	05/06/2020
Version	1.0	Print Date	06/04/2020
Material number	1436338	Page	Page 1 of 18

SECTION 1. IDENTIFICATION

Product name : **1436338**
CerMark ULTRA 2oz. Aerosol

Material number : **1436338**

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

Address : 6060 Parkland Blvd. Suite 250
Mayfield Heights OH 44124-4185

Telephone : (216) 875-5600

Emergency telephone number

In-Country Number : (800)424-9300

CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 2

Eye irritation : Category 2A

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 2

Specific target organ toxicity
- single exposure : Category 2

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H223 Flammable aerosol.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H371 May cause damage to organs.

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Precautionary statements	:	Prevention:	
		P201	Obtain special instructions before use.
		P202	Do not handle until all safety precautions have been read and understood.
		P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
		P211	Do not spray on an open flame or other ignition source.
		P251	Pressurized container: Do not pierce or burn, even after use.
		P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
		P264	Wash skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/ physician.
		P308 + P313	IF exposed or concerned: Get medical advice/ attention.
		P337 + P313	If eye irritation persists: Get medical advice/ attention.
		Storage:	
		P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	organic solvent, inorganic pigment, inorganic metal-nonmetal compound, silicon/siloxane, silicatic material, metal/metal compound, hydrocarbon, aliphatic

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Hazardous components

Chemical Name	CAS-No.	Concentration (%)
ethanol	64-17-5	>= 30 - < 50
butane	106-97-8	>= 10 - < 20
Isobutane	75-28-5	>= 5 - < 10
Molybdenum(VI) oxide	1313-27-5	>= 5 - < 10
propane	74-98-6	>= 5 - < 10
mica	12001-26-2	>= 5 - < 10
silicon	7440-21-3	>= 1 - < 5
manganese	7439-96-5	>= 1 - < 5
2-butoxyethanol	111-76-2	>= 1 - < 5
ethyl acetate	141-78-6	>= 1 - < 5
4-methylpentan-2-one	108-10-1	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice	: Consult a physician.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation. May cause genetic defects. Suspected of causing cancer. May cause damage to organs.

SECTION 5. FIREFIGHTING MEASURES

Specific hazards during firefighting	: Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.
Hazardous combustion products	: No hazardous combustion products are known
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	: Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for	: Keep in suitable, closed containers for disposal.

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containment and cleaning up Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		STEL	1,000 ppm	ACGIH
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
		TWA	1,000 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
Isobutane	75-28-5	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		STEL	1,000 ppm	ACGIH
Molybdenum(VI) oxide	1313-27-5	TWA	5 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Respirable fraction)	0.5 mg/m3 (Molybdenum)	ACGIH
		TWA	5 mg/m3 (Molybdenum)	OSHA P0
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0
mica	12001-26-2	TWA	3 mg/m3	ACGIH

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		(Respirable fraction)		
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	3 mg/m3	NIOSH REL
		TWA (respirable dust fraction)	3 mg/m3	OSHA P0
silicon	7440-21-3	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
manganese	7439-96-5	C (Fumes)	5 mg/m3	OSHA Z-1
		TWA (Fumes)	1 mg/m3 (Manganese)	NIOSH REL
		ST (Fumes)	3 mg/m3 (Manganese)	NIOSH REL
		TWA (Fumes)	1 mg/m3 (Manganese)	OSHA P0
		STEL (Fumes)	3 mg/m3 (Manganese)	OSHA P0
		TWA (Inhalable fraction)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable fraction)	0.02 mg/m3 (Manganese)	ACGIH
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm	NIOSH REL
		TWA	24 mg/m3	
		TWA	50 ppm	OSHA Z-1
		TWA	240 mg/m3	
		TWA	25 ppm	OSHA P0
		TWA	120 mg/m3	
ethyl acetate	141-78-6	TWA	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
		TWA	1,400 mg/m3	
		TWA	400 ppm	OSHA Z-1
		TWA	1,400 mg/m3	

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		TWA	400 ppm 1,400 mg/m3	OSHA P0
4-methylpentan-2-one	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m3	NIOSH REL
		ST	75 ppm 300 mg/m3	NIOSH REL
		TWA	100 ppm 410 mg/m3	OSHA Z-1
		TWA	50 ppm 205 mg/m3	OSHA P0
		STEL	75 ppm 300 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI
4-methylpentan-2-one	108-10-1	methyl isobutyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	1 mg/l	ACGIH BEI

Engineering measures : No data available

Personal protective equipment

Eye protection : Safety glasses
Ensure that eyewash stations and safety showers are close to the workstation location.

Protective measures : Wear suitable protective equipment.
When using do not eat, drink or smoke.

Hygiene measures : Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	:	aerosol
Colour	:	dark grey
Odour	:	alcohol-like
Flash point	:	-104.44 °C Method: calculated
Upper explosion limit	:	19 %(V)
Lower explosion limit	:	1.1 %(V)
Relative vapour density	:	No data available
Density	:	0.831 g/cm3
Solubility(ies) Water solubility	:	soluble
Oxidizing properties	:	No data available
Heat of combustion	:	9,713.72 Btu/lb
Volatile organic compounds (VOC) content	:	4.67 lb/galThe following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489): This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

ethanol:

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

butane:

Acute inhalation toxicity : LC50 (Rat): 658,000 mg/m³
Exposure time: 4 h
Test atmosphere: gas
Test substance: No data available

Molybdenum(VI) oxide:

Acute oral toxicity : LD50 (Rat, male and female): 4,461 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,840 mg/m³
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Target Organs: Mucous membranes
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

propane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l
Exposure time: 4 h
Test atmosphere: gas

silicon:

Acute oral toxicity : LD50 Oral (Rat): 3,160 mg/kg

manganese:

Acute oral toxicity : LD50 Oral (Rat): 9 g/kg

2-butoxyethanol:

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Acute oral toxicity	:	LD50 Oral (Rat, male and female): 1,200 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute dermal toxicity	:	LD50 Dermal (Rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes
ethyl acetate:		
Acute oral toxicity	:	LD50 Oral (Rat): 6,100 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 22.5 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 18,000 mg/kg
4-methylpentan-2-one:		
Acute oral toxicity	:	LD50 Oral (Rat): 2,080 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 3,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

ethanol:

Species: Rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: No skin irritation

Molybdenum(VI) oxide:

Species: Rabbit
Exposure time: 4 h
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

2-butoxyethanol:

Species: Rabbit
Exposure time: 72 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: yes

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

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ethanol:

Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405

Molybdenum(VI) oxide:

Species: Rabbit
Result: Irritating to eyes.
Assessment: Irritating to eyes.

silicon:

Species: Rabbit
Result: Mild eye irritation
Method: Draize Test

2-butoxyethanol:

Result: Eye irritation

ethyl acetate:

Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

Suspected of causing cancer.

IARC

Group 2B: Possibly carcinogenic to humans

4-methylpentan-2-one

108-10-1

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT Specific Target Organ Toxicity - single exposure

May cause damage to organs.

Components:

Molybdenum(VI) oxide:

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Assessment: May cause respiratory irritation.

STOT Specific Target Organ Toxicity - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ethanol:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 9,268 mg/l
Exposure time: 48 h

Molybdenum(VI) oxide:

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 100 mg/l
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

(Pimephales promelas (fathead minnow)): 370 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

(Daphnia magna (Water flea)): 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

2-butoxyethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,490 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,800 mg/l
Exposure time: 48 h

ethyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h
Test Type: flow-through test

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (algae): 3,300 mg/l
Exposure time: 48 h

4-methylpentan-2-one:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 496 - 514 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 170 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 400 mg/l
Exposure time: 96 h

Persistence and degradability

Components:

ethanol:

Biodegradability : Remarks: No data available

butane:

Biodegradability : Remarks: No data available

Molybdenum(VI) oxide:

Biodegradability : Remarks: No data available

propane:

Biodegradability : Remarks: No data available

mica:

Biodegradability : Remarks: No data available

silicon:

Biodegradability : Remarks: No data available

manganese:

Biodegradability : Remarks: No data available

2-butoxyethanol:

Biodegradability : Remarks: No data available

ethyl acetate:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

ethanol:

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Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -0.349 (24 °C)

butane:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 2.89

Molybdenum(VI) oxide:

Bioaccumulation : Remarks: No data available

propane:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

mica:

Bioaccumulation : Remarks: No data available

silicon:

Bioaccumulation : Remarks: No data available

manganese:

Bioaccumulation : Remarks: No data available

2-butoxyethanol:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0.77 (20 °C)
pH: 7

ethyl acetate:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0.73 (20 °C)

4-methylpentan-2-one:

Partition coefficient: n-octanol/water : Pow: 1.19

Mobility in soil

Components:

ethanol:

Distribution among environmental compartments : Remarks: No data available

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butane:

Distribution among environmental compartments : Remarks: No data available

Molybdenum(VI) oxide:

Distribution among environmental compartments : Remarks: No data available

propane:

Distribution among environmental compartments : Remarks: No data available

mica:

Distribution among environmental compartments : Remarks: No data available

silicon:

Distribution among environmental compartments : Remarks: No data available

manganese:

Distribution among environmental compartments : Remarks: No data available

2-butoxyethanol:

Distribution among environmental compartments : Remarks: No data available

ethyl acetate:

Distribution among environmental compartments : Remarks: No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

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SECTION 14. TRANSPORT INFORMATION

IATA-DGR

UN number : UN 1950
Proper shipping name : Aerosols, non-flammable
Class : 2.2
Packing group : Not assigned by regulation
Labels : 2.2
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203

IMDG-Code

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.2
Packing group : Not assigned by regulation
Labels : 2.2
EmS Code : F-D, S-U
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.2
Packing group : Not assigned by regulation
Labels : 2.2
ERG Code : 126
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA_12b - Not relevant

TSCA list : TSCA 5a - Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethyl acetate	141-78-6	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic Health Hazard
Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This product contains components that are reportable under the regulation.

Chromium III Compounds
Cobalt, inorganic compounds

Molybdenum trioxide

Manganese

Certain Glycol Ethers

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains components that are reportable under the regulation.

Massachusetts Right To Know

This product contains components that are reportable under the regulation.

Pennsylvania Right To Know

This product contains components that are reportable under the regulation.

New Jersey Right To Know

This product contains components that are reportable under the regulation.

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California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

The components of this product are reported in the following inventories:

EINECS (European Union)	: On the inventory, or in compliance with the inventory
SWISS (Switzerland)	: On the inventory, or in compliance with the inventory
TSCA (United States)	: On TSCA Inventory
DSL/NDSL (Canada)	: This product contains one or several components listed in the Canadian NDSL.
AICS (Australia)	: Not in compliance with the inventory
NZioC (New Zealand)	: Not in compliance with the inventory
ENCS (Japan)	: On the inventory, or in compliance with the inventory
ISHL (Japan)	: Not in compliance with the inventory
KECI (Korea)	: Not in compliance with the inventory
PICCS (Philippines)	: Not in compliance with the inventory
IECSC (China)	: On the inventory, or in compliance with the inventory
TCSI (Taiwan)	: Not in compliance with the inventory
CICR (Turkey)	: Not in compliance with the inventory
INSQ (Mexico)	: Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date : 05/06/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200
(HCS 2012)

1436338		CerMark ULTRA 2oz. Aerosol	
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