

ULTRA Black Spray		CerMark ULTRA 12oz. Aerosol	
Product specification	RS_FP_606438	Revision Date	2020/10/23
Version	1.1	Print Date	2020/11/09
Material number	1436337	Page	Page 1 of 29

1. IDENTIFICATION

Product name : **ULTRA Black Spray**
CerMark ULTRA 12oz. Aerosol

Material number : **1436337**

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

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

Telephone : (216) 875-5600

E-mail address : SDSNA@ferro.com

Emergency telephone number

CHEMTREC In-Country Number : +(81)-345209637

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

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 4

Serious eye damage/eye irritation : Category 2A

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 2

Reproductive toxicity : Category 1A

Specific target organ toxicity - single exposure : Category 2 (Kidney Organ, Liver, Heart, respiratory tract, Central nervous system, Blood)

Specific target organ toxicity - single exposure : Category 3 (Respiratory tract irritation, Narcotic effects)

Specific target organ toxicity - repeated exposure : Category 1 (Liver)

Specific target organ toxicity - repeated exposure : Category 2 (Central nervous system, Lungs, Nervous system, respiratory tract)

Acute aquatic toxicity : Category 3

Chronic aquatic toxicity : Category 3

ULTRA Black Spray

CerMark ULTRA 12oz. Aerosol

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 2 of 29**

GHS Label element

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H371 May cause damage to organs (Kidney Organ, Liver, Heart, respiratory tract, Central nervous system, Blood).
H372 Causes damage to organs (Liver) through prolonged or repeated exposure.
H373 May cause damage to organs (Central nervous system, Lungs, Nervous system, respiratory tract) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

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.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
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.

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

CerMark ULTRA 12oz. Aerosol

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page Page 3 of 29

P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:	
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
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.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal:	
P501	Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

Important symptoms and outlines of the emergency assumed : No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : organic solvent, inorganic pigment, inorganic metal-nonmetal

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 4 of 29**

compound, silicon/siloxane, silicatic material, metal/metal compound, extremely flammable liquefied gas, hydrocarbon, aliphatic

Hazardous components

Chemical Name	CAS-No.	Concentration (%)	ENCS/ISHL number
ethanol	64-17-5	>= 30 - < 40	2-202
Fe-Co-Cr spinel black	68186-97-0	17.2	1-357
butane	106-97-8	>= 10 - < 20	2-4
Isobutane	75-28-5	>= 1 - < 10	2-4
Molybdenum(VI) oxide	1313-27-5	6.73	1-479
propane	74-98-6	>= 1 - < 10	2-3
mica	12001-26-2	>= 1 - < 10	
silicon	7440-21-3	>= 1 - < 10	
manganese	7439-96-5	2.32	
2-butoxyethanol	111-76-2	>= 1 - < 10	2-407, 7-97, 2-2424
ethyl acetate	141-78-6	>= 1 - < 10	2-726
4-methylpentan-2-one	108-10-1	>= 0.1 - < 1	2-542
ethanol	64-17-5	>= 30 - < 40	2-202
Fe-Co-Cr spinel black	68186-97-0	17.2	1-357
butane	106-97-8	>= 10 - < 20	2-4, 9-1697
isobutane	75-28-5	>= 1 - < 10	2-4
Molybdenum(VI) oxide	1313-27-5	6.73	1-479
propane	74-98-6	>= 1 - < 10	2-3
mica	12001-26-2	>= 1 - < 10	
silicon	7440-21-3	>= 1 - < 10	
manganese	7439-96-5	2.32	
2-butoxyethanol	111-76-2	>= 1 - < 10	2-407, 7-97, 2-2424
ethyl acetate	141-78-6	>= 1 - < 10	2-726
boron orthophosphate	13308-51-5	>= 0.1 - < 1	1-72
4-methylpentan-2-one	108-10-1	>= 0.1 - < 1	2-542

4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 5 of 29**

- Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause genetic defects.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid breathing dust.
Ensure adequate ventilation.

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 6 of 29**

Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
No conditions to be specially mentioned.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
No special handling advice required.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Avoid release to the environment.

Avoidance of contact : No data available

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Storage

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Keep container tightly closed in a dry and well-ventilated

ULTRA Black Spray

CerMark ULTRA 12oz. Aerosol

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 7 of 29**

place.
Electrical installations / working materials must comply with the technological safety standards.

No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
Fe-Co-Cr spinel black	68186-97-0	OEL-M	0.05 mg/m3 (Cobalt)	JP OEL JSOH
		Further information: Sensitizing evaluation does not necessarily apply to all individual chemicals within the group, Carcinogenic evaluation does not necessarily apply to all individual chemicals within the group, Airway sensitizing agent; Group 1 substances which induce allergic reactions in humans, Skin sensitizing agent; Group 1 substances which induce allergic reactions in humans, Group 2B: possibly carcinogenic to humans		
		OEL-M	0.5 mg/m3 (chromium)	JP OEL JSOH
		Further information: Sensitizing evaluation does not necessarily apply to all individual chemicals within the group, Airway sensitizing agent; Group 2 substances which probably induce allergic reactions in humans., Skin sensitizing agent; Group 1 substances which induce allergic reactions in humans		
		TWA	0.02 mg/m3 (Cobalt)	JP OEL ISHL
		OEL-M (Respirable dust)	1 mg/m3 (Iron)	JP OEL JSOH
		Further information: Class 2 Dust		
		OEL-M (Total dust)	4 mg/m3 (Iron)	JP OEL JSOH
		Further information: Class 2 Dust		
butane	106-97-8	OEL-M	500 ppm 1,200 mg/m3	JP OEL JSOH
		STEL	1,000 ppm	ACGIH

SAFETY DATA SHEET
According to JIS Z 7253 (2012)

ULTRA Black Spray

CerMark ULTRA 12oz. Aerosol

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 8 of 29**

isobutane	75-28-5	OEL-M	500 ppm 1,200 mg/m ³	JP OEL JSOH
		STEL	1,000 ppm	ACGIH
Molybdenum(VI) oxide	1313-27-5	TWA (Respirable fraction)	0.5 mg/m ³ (Molybdenum)	ACGIH
mica	12001-26-2	OEL-M (Respirable dust)	1 mg/m ³	JP OEL JSOH
Further information: Class 2 Dust				
		OEL-M (Total dust)	4 mg/m ³	JP OEL JSOH
Further information: Class 2 Dust				
		TWA (Respirable fraction)	3 mg/m ³	ACGIH
manganese	7439-96-5	TWA	0.2 mg/m ³ (Manganese)	JP OEL ISHL
		OEL-M	0.2 mg/m ³ (Manganese)	JP OEL JSOH
		TWA (Inhalable fraction)	0.1 mg/m ³ (Manganese)	ACGIH
		TWA (Respirable fraction)	0.02 mg/m ³ (Manganese)	ACGIH
2-butoxyethanol	111-76-2	TWA	25 ppm	JP OEL ISHL
		TWA	20 ppm	ACGIH
ethyl acetate	141-78-6	TWA	200 ppm	JP OEL ISHL
		OEL-M	200 ppm 720 mg/m ³	JP OEL JSOH
		TWA	400 ppm	ACGIH
4-methylpentan-2-one	108-10-1	TWA	20 ppm	JP OEL ISHL
		OEL-M	50 ppm 200 mg/m ³	JP OEL JSOH
		TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Target substance	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	1.7 mg/l	JSOH
		methyl isobutyl ketone	Urine	End of shift (As soon as	1 mg/l	ACGIH BEI

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 9 of 29**

				possible after exposure ceases)		
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Engineering measures : No data available

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
No personal respiratory protective equipment normally required.

Hand protection : Use chemical-protective gloves with CE-labelling of category III.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Colour : dark grey

Odour : alcohol-like

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 14 °C
Method: calculated

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Burning rate : No data available

Upper explosion limit : 19 %(V)

Lower explosion limit : 1.1 %(V)

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

CerMark ULTRA 12oz. Aerosol

Product specification	RS_FP_606438	Revision Date	2020/10/23
Version	1.1	Print Date	2020/11/09
Material number	1436337	Page	Page 10 of 29

Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.831 g/cm ³
Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: Not applicable
Heat of combustion	: 9,713.72 Btu/lb
Refractive index	: No data available

10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No hazards to be specially mentioned. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: No data available
Hazardous decomposition products	: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page Page 11 of 29

Acute oral toxicity : Acute toxicity estimate: 1,132 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

ethanol:

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

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

Fe-Co-Cr spinel black:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 423
GLP: no
Assessment: The substance or mixture has no acute oral toxicity

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:

ULTRA Black Spray		CerMark ULTRA 12oz. Aerosol	
Product specification	RS_FP_606438	Revision Date	2020/10/23
Version	1.1	Print Date	2020/11/09
Material number	1436337	Page	Page 12 of 29

Acute oral toxicity	: LD50 Oral (Rat): 3,160 mg/kg
manganese:	
Acute oral toxicity	: LD50 Oral (Rat): 9 g/kg
2-butoxyethanol:	
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
ethanol:	
Acute oral toxicity	: LD50 Oral (Rat): 10,470 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): 15,800 mg/kg
Fe-Co-Cr spinel black:	
Acute oral toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: no Assessment: The substance or mixture has no acute oral toxicity
butane:	
Acute inhalation toxicity	: LC50 (Rat, male and female): 658 g/m ³ Exposure time: 4 h Test atmosphere: gas
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/m ³ Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Target Organs: Mucous membranes GLP: yes

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page Page 13 of 29

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:

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

boron orthophosphate:

Acute oral toxicity : LD50 (Rat, female): > 300 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

1578 ppm
Method: ISO TC58

4-methylpentan-2-one:

Acute oral toxicity : LD50 Oral (Rat): 2,080 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3,000 mg/kg

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 14 of 29**

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

ethanol:

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

Fe-Co-Cr spinel black:

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

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

ethanol:

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

Fe-Co-Cr spinel black:

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

Molybdenum(VI) oxide:

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

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 15 of 29**

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.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

ethanol:

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

Fe-Co-Cr spinel black:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: no

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

ethanol:

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

Fe-Co-Cr spinel black:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: no

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 16 of 29**

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.

Product:

Remarks: No data available

Components:

Molybdenum(VI) oxide:

Remarks: No data available

Molybdenum(VI) oxide:

Remarks: No data available

boron orthophosphate:

Remarks: No data available

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May damage fertility or the unborn child.

STOT Specific Target Organ Toxicity - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs.

Components:

Molybdenum(VI) oxide:

Assessment: May cause respiratory irritation.

Molybdenum(VI) oxide:

Assessment: May cause respiratory irritation.

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 17 of 29**

STOT Specific Target Organ Toxicity - repeated exposure

Causes damage to organs (Liver) through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: Solvents may degrease the skin.

Components:

Molybdenum(VI) oxide:

Remarks: No data available

Molybdenum(VI) oxide:

Remarks: No data available

boron orthophosphate:

Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 22.43 %

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

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 18 of 29**

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

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

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

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 19 of 29**

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

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

boron orthophosphate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0.207 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50: > 0.135 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.35 mg/l
Exposure time: 72 h
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

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

ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 20 of 29**

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

ethanol:

Biodegradability : Remarks: No data available

Fe-Co-Cr spinel black:

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

ethanol:

Biodegradability : Remarks: No data available

Fe-Co-Cr spinel black:

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:

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page 21 of 29

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

Product:

Bioaccumulation : Remarks: No data available

Components:

ethanol:

Bioaccumulation : Remarks: No data available

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

Fe-Co-Cr spinel black:

Bioaccumulation : Remarks: No data available

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- : log Pow: 0.77 (20 °C)

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page 22 of 29

octanol/water

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

ethanol:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water

: log Pow: -0.349 (24 °C)

Fe-Co-Cr spinel black:

Bioaccumulation : Remarks: No data available

butane:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water

: log Pow: 2.745

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)

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 23 of 29**

4-methylpentan-2-one:

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

Mobility in soil

Product:

Distribution among
environmental compartments : Remarks: No data available

Components:

ethanol:

Distribution among
environmental compartments : Remarks: No data available

Fe-Co-Cr spinel black:

Distribution among
environmental compartments : Remarks: No data available

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

ethanol:

Distribution among : Remarks: No data available

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 24 of 29**

environmental compartments

Fe-Co-Cr spinel black:

Distribution among environmental compartments : Remarks: No data available

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

Hazardous to the ozone layer

Not applicable

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Components:

Molybdenum(VI) oxide:

Additional ecological information : No data available
There is no data available for this product.

Components:

ULTRA Black Spray		CerMark ULTRA 12oz. Aerosol	
Product specification	RS_FP_606438	Revision Date	2020/10/23
Version	1.1	Print Date	2020/11/09
Material number	1436337	Page	Page 25 of 29

Molybdenum(VI) oxide:

Additional ecological information : No data available
There is no data available for this product.

Components:

boron orthophosphate:

Additional ecological information : No data available
There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORT INFORMATION

IATA-DGR

UN number : UN 1950
Proper shipping name : Aerosols, flammable
(ethanol, ethyl acetate)
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203

IMDG-Code

UN number : UN 1950
Proper shipping name : AEROSOLS
(ethanol, ethyl acetate)
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 26 of 29**

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Group 4, Type 1 petroleum, Water soluble liquid, (400 litre)

Chemical Substance Control Law

Priority Assessment Chemical Substance

Chemical Name	Number
2-Butoxyethanol	109
Methyl isobutyl ketone	116

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical Name	Number	Concentration (%)
Ethanol	61	$\geq 30 - < 40$
Cobalt and its compounds	172	$\geq 10 - < 20$
Chromium and its compounds	142	$\geq 10 - < 20$
Iron oxide	192	
Molybdenum and its compounds	603	$\geq 1 - < 10$
Manganese and its inorganic compounds	550	$\geq 1 - < 10$
Ethylene glycol mono-n-butyl ether	79	$\geq 1 - < 10$
Ethyl acetate	177	$\geq 1 - < 10$

SAFETY DATA SHEET

According to JIS Z 7253 (2012)



ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page **Page 27 of 29**

Butane	482	>=10 - <20
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Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical Name	Number
Cobalt and its inorganic compounds	9-4
Ethylene glycol mono-n-butyl ether	3-5
ethyl acetate	9-9

Ordinance on Prevention of Hazards Due to Specified Chemical Substances - Group 2 Substance

Chemical Name
Cobalt and its inorganic compounds
manganese
manganese and compounds

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Inflammable Substance

Poisonous and Deleterious Substances Control Law

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Class I Designated Chemical Substances

Chemical Name	Number	Concentration (%)
Cobalt and its compounds / Measured as Cobalt	132	17
Chromium and chromium(III) compounds / Measured as Chromium	87	17
Molybdenum and its compounds / Measured as Molybdenum	453	6.7
Manganese and its compounds / Measured as Manganese	412	4.6

International Chemical Weapons Convention (CWC) : Neither banned nor restricted
Schedules of Toxic Chemicals and Precursors

Explosive Control Law

Not applicable

Vessel Safety Law

Gases (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

ULTRA Black Spray		CerMark ULTRA 12oz. Aerosol	
Product specification	RS_FP_606438	Revision Date	2020/10/23
Version	1.1	Print Date	2020/11/09
Material number	1436337	Page	Page 28 of 29

Aviation Law

Gases (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

High Pressure Gas Safety Act

Not applicable

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation : Noxious liquid substance(Category Z)

Pack transportation : Not classified as marine pollutant

Waste Disposal and Public Cleansing Law

Specially Controlled Industrial Waste

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 components listed on the Canadian NDSL. All other components are on the Canadian DSL.
- 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

16. OTHER INFORMATION

Date format : yyyy/mm/dd

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.

ULTRA Black Spray

Product specification **RS_FP_606438**
Version **1.1**
Material number **1436337**

CerMark ULTRA 12oz. Aerosol

Revision Date **2020/10/23**
Print Date **2020/11/09**
Page Page 29 of 29

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