

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

| | | | |
|-----------------------|---------------------|------------------------------------|-------------------|
| 1436334 | | GSLA_ULTRA Black Paste 250g | |
| Product specification | RS_FP_606158 | Revision Date | 06/04/2020 |
| Version | 2.1 | Print Date | 06/04/2020 |
| Material number | 1436334 | Page | Page 1 of 17 |

SECTION 1. IDENTIFICATION

Product name : **1436334**
GSLA_ULTRA Black Paste 250g

Material number : **1436334**

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)

Recommended use of the chemical and restrictions on use

Recommended use : Consult the technical guidelines for the use of this substance/mixture.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and

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- P241 receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/ eye protection/ face protection.

Response:

- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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 + P235 Store in a well-ventilated place. Keep cool.

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, glycol ether/-acetate, carbonic acid/ester/anhydride

Hazardous components

| Chemical Name | CAS-No. | Concentration (%) |
|----------------------|------------|-------------------|
| ethanol | 64-17-5 | >= 30 - < 50 |
| Molybdenum(VI) oxide | 1313-27-5 | >= 5 - < 10 |
| mica | 12001-26-2 | >= 5 - < 10 |
| silicon | 7440-21-3 | >= 5 - < 10 |
| manganese | 7439-96-5 | >= 1 - < 5 |

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| | | |
|-------------------|-------------|------------|
| 2-butoxyethanol | 111-76-2 | >= 1 - < 5 |
| ethyl acetate | 141-78-6 | >= 1 - < 5 |
| Silica, amorphous | 112945-52-5 | >= 1 - < 5 |

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
- If inhaled : Remove to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water and seek medical advice.
- If swallowed : If accidentally swallowed obtain immediate medical attention.
- Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 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 : Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
- Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

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 | NIOSH REL |
| | | | 1,900 mg/m3 | |
| | | TWA | 1,000 ppm | OSHA Z-1 |
| | | | 1,900 mg/m3 | |
| Molybdenum(VI) oxide | 1313-27-5 | TWA | 1,000 ppm | OSHA P0 |
| | | | 1,900 mg/m3 | |
| | | STEL | 1,000 ppm | ACGIH |
| | | TWA | 5 mg/m3 (Molybdenum) | OSHA Z-1 |
| | | | 0.5 mg/m3 (Molybdenum) | ACGIH |
| mica | 12001-26-2 | TWA | 5 mg/m3 (Molybdenum) | OSHA P0 |
| | | | 3 mg/m3 | ACGIH |
| | | TWA (Dust) | 20 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Respirable) | 3 mg/m3 | NIOSH REL |
| | | | 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) | 15 mg/m3 | OSHA Z-1 |

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| | | | | |
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| | | dust) | | |
| | | 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 24 mg/m3 | NIOSH REL |
| | | TWA | 50 ppm 240 mg/m3 | OSHA Z-1 |
| | | TWA | 25 ppm 120 mg/m3 | OSHA P0 |
| ethyl acetate | 141-78-6 | TWA | 400 ppm | ACGIH |
| | | TWA | 400 ppm 1,400 mg/m3 | NIOSH REL |
| | | TWA | 400 ppm 1,400 mg/m3 | OSHA Z-1 |
| | | TWA | 400 ppm 1,400 mg/m3 | OSHA P0 |
| Silica, amorphous | 112945-52-5 | TWA (Dust) | 20 Million particles per cubic foot (Silica) | OSHA Z-3 |
| | | TWA (Dust) | 80 mg/m3 / %SiO2 (Silica) | OSHA Z-3 |
| | | TWA | 6 mg/m3 (Silica) | NIOSH REL |

Hazardous components without workplace control parameters

| Components | CAS-No. |
|------------|---------|
|------------|---------|

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| boron orthophosphate | 13308-51-5 |

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 |

Engineering measures : Apply technical measures to comply with the occupational exposure limits.
Provide adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

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

Hygiene measures : Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : green, yellow
- Odour : solvent-like
- Odour Threshold : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : 14 °C
Method: calculated

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| | | |
|--|---|---|
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Relative vapour density | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | insoluble soluble |
| Auto-ignition temperature | : | Not determined |
| Oxidizing properties | : | No data available |
| Refractive index | : | No data available |
| Volatile organic compounds (VOC) content | : | This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450. 47.75 % The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489): |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|---|
| Reactivity | : | No dangerous reaction known under conditions of normal use. |
| Chemical stability | : | The product is chemically stable. |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed. |
| Conditions to avoid | : | Extremes of temperature and direct sunlight. |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

inhalation (dust/mist/fume)

Skin

Eye contact

Skin Absorption

Acute toxicity

Not classified based on available information.

Product:

| | | |
|---------------------|---|--|
| Acute oral toxicity | : | Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |
|---------------------|---|--|

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Components:

ethanol:

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

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

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

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

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Acute dermal toxicity : LD50 Dermal (Rabbit): > 18,000 mg/kg

Silica, amorphous:

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

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

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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

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Not classified based on available information.

Components:

Molybdenum(VI) oxide:

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

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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

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

Persistence and degradability

Components:

ethanol:

Biodegradability : Remarks: No data available

Molybdenum(VI) oxide:

Biodegradability : Remarks: No data available

mica:

Biodegradability : Remarks: No data available

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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

Silica, amorphous:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

ethanol:

Bioaccumulation : Remarks: No data available

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

Molybdenum(VI) oxide:

Bioaccumulation : 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)

Silica, amorphous:

Bioaccumulation : Remarks: No data available

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Mobility in soil

Components:

ethanol:

Distribution among environmental compartments : Remarks: No data available

Molybdenum(VI) oxide:

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

Silica, amorphous:

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

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

SECTION 14. TRANSPORT INFORMATION

IATA-DGR

UN number : UN 1993
 Proper shipping name : Flammable liquid, n.o.s.
 (ethanol, ethyl acetate)
 Class : 3
 Packing group : II
 Labels : 3
 Packing instruction (cargo aircraft) : 364
 Packing instruction (passenger aircraft) : 353
 Packing instruction (LQ) : Y341

IMDG-Code

UN number : UN 1993
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.
 (ethanol, ethyl acetate)
 Class : 3
 Packing group : II
 Labels : 3
 EmS Code : F-E, S-E
 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 1993
 Proper shipping name : FLAMMABLE LIQUIDS, N.O.S.
 (ethanol, ethyl acetate)
 Class : 3
 Packing group : II
 Labels : 3
 ERG Code : 128
 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA_12b - Not relevant

TSCA list : TSCA 5a - Not relevant

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

CERCLA Reportable Quantity

| 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** : Fire 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 CompoundsCobalt, 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 does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
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.

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New Jersey Right To Know

This product contains components that are reportable under the regulation.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any 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 : 06/04/2020

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

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

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|-----------------------|---------------------|------------------------------------|----------------------|
| 1436334 | | GSLA_ULTRA Black Paste 250g | |
| Product specification | RS_FP_606158 | Revision Date | 06/04/2020 |
| Version | 2.1 | Print Date | 06/04/2020 |
| Material number | 1436334 | Page | Page 17 of 17 |

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.

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