acc. to 29 CFR 1910.1200 App D

Cerakote FX

Version number: 1.1

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SECTION 1: Identification

INNOVATIONS OF NIC INDUSTRIES

1.1 **Product identifier**

Trade name

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

1.3 Details of the supplier of the safety data sheet

'PRISMATIC

NIC Industries, Inc 7050 6th St. White City Oregon 97503 United States

Telephone: 866-774-7628 e-mail: sds@nicindustries.com Website: www.nicindustries.com

1.4 Emergency telephone number

Emergency information service

The information contained in this Safety Data Sheet (SDS) is, to the best of our knowledge, true and accurate and presented in good faith. NIC Industries, Inc. makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. Because many factors may affect processing or application/use of this product, this data is offered solely for the user's consideration, investigation and verification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or process. Regulatory requirements are subject to change and may differ from one location to another. It is the responsibility of the buyer/user to ensure its activities comply with all local, state and federal regulations.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class and category code(s)

| Classifica | tion acc. to GHS | | | |
|------------|------------------|----------|--------------------------------|-----------------------|
| Section | Hazard class | Category | Hazard class and cat- egory | Hazard state- ment |
| A.6 | Carcinogenicity | 2 | Carc. 2 | H351 |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

GHS08

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word
- Pictograms



WARNING

Page: 1 / 14

Date of compilation: 12/29/2022

1-800-633-8253 (USA & Canada)

Cerakote FX

General use



INNOVATIONS OF NIC INDUSTRIES

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Cerakote FX

Date of compilation: 12/29/2022

Version number: 1.1

- Hazard statements H351 Suspected of causing cancer.
- Precautionary statements

| P201 | Obtain special instructions before use. |
|-----------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P308+P313 | If exposed or concerned: Get medical advice/attention. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to industrial combustion plant. |
| | |

- Hazardous ingredients for labelling

Synthetic Pigment

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% |
|-------------------|------------------------|-----------|
| Synthetic Pigment | CAS No Trade Secret | 25 - < 50 |
| Ceramic Additive | CAS No Trade Secret | 1-<5 |

** Trade Secret: In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200(i) and in accordance with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), the specific identity and/or exact percentage (concentration) of the composition has been withheld as a "Trade Secret"

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.



acc. to 29 CFR 1910.1200 App D

Cerakote FX

Version number: 1.1

Date of compilation: 12/29/2022

4.3 Indication of any immediate medical attention and special treatment needed None.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Dry extinguishing powder, ABC-powder

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

acc. to 29 CFR 1910.1200 App D

INNOVATIONS OF NIC INDUSTRIES

Cerakote FX

Version number: 1.1

CERAKOTE

SECTION 7: Handling and storage

' PRISMATIC

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Ventilation requirements

Use local and general ventilation.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Г

| Occup | Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | |
|---------|---|-----------------|--------------|-----------------|---------------|------------------|--------------------|----------------------|--------------------|-------------------------|
| Country | Name of substance | ldentifi- er | TWA [ppm] | TWA [mg/ m³] | STEL [ppm] | STEL [mg/ m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Nota- tion | Source |
| US | Fluorphlogopite (Mg3K[AlF2O(SiO3)3]) Ceramic Additive Synthetic Pigment Pigment C.l. Pigment Red 254 | REL | | | | | | | appx-D | NIOSH REL |
| US | Fluorphlogopite (Mg3K[AlF2O(SiO3)3]) Ceramic Additive Synthetic Pigment Pigment C.I. Pigment Red 254 | PEL | 1,766 | 15 | | | | | partml, i, dust | 29 CFR 1910.100 0 |

Date of compilation: 12/29/2022



acc. to 29 CFR 1910.1200 App D

Cerakote FX

Version number: 1.1

Date of compilation: 12/29/2022

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| Occup | Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | |
|---------|---|-----------------|--------------|-----------------|---------------|------------------|--------------------|----------------------|--------------------|-------------------------|
| Country | Name of substance | ldentifi- er | TWA [ppm] | TWA [mg/ m³] | STEL [ppm] | STEL [mg/ m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Nota- tion | Source |
| US | Fluorphlogopite (Mg3K[AlF2O(SiO3)3]) Ceramic Additive Synthetic Pigment Pigment C.I. Pigment Red 254 | PEL | 529.5 | 5 | | | | | partml, r, dust | 29 CFR 1910.100 0 |
| US | Fluorphlogopite (Mg3K[AlF2O(SiO3)3]) Ceramic Additive Synthetic Pigment Pigment C.I. Pigment Red 254 | PEL (CA) | | 10 | | | | | dust | Cal/OSHA PEL |
| US | Fluorphlogopite (Mg3K[AlF2O(SiO3)3]) Ceramic Additive Synthetic Pigment Pigment C.I. Pigment Red 254 | PEL (CA) | | 5 | | | | | r | Cal/OSHA PEL |
| US | Pigment | TLV® | | 5 | | | | | r | ACGIH® 2022 |
| US | Pigment | PEL (CA) | | 5 | | | | | fume | Cal/OSHA PEL |
| US | Pigment | PEL | | 10 | | | | | fume | 29 CFR 1910.100 0 |
| US | Pigment | REL | | 5 (10 h) | | | | | df, Fe | NIOSH REL |
| US | Pigment | REL | | | | | | | appx-D | NIOSH REL |
| US | Pigment | PEL | | 15 | | | | | i, dust | 29 CFR 1910.100 0 |
| US | Pigment | PEL | | 5 | | | | | r, dust | 29 CFR 1910.100 0 |
| US | Synthetic Pigment | PEL | | 15 | | | | | i, dust | 29 CFR 1910.100 0 |
| US | Synthetic Pigment | REL | | | | | | | lowest, appx-A | NIOSH REL |
| US | Synthetic Pigment | TLV® | | 2.5 | | | | | r | ACGIH® 2022 |
| US | Synthetic Pigment | TLV® | | 0.2 | | | | | r | ACGIH® 2022 |
| US | Ceramic Additive | REL | | 2 (10 h) | | | | | Sn | NIOSH REL |



INNOVATIONS OF NIC INDUSTRIES

Version number: 1.1

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Cerakote FX

Date of compilation: 12/29/2022

| Notation | |
|-----------|---|
| appx-A | NIOSH Potential Occupational Carcinogen (Appendix A) |
| appx-D | see Appendix D - Substances with No Established RELs |
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| df | as dust and fumes |
| dust | as dust |
| Fe | calculated as Fe (iron) |
| fume | as fume |
| i | inhalable fraction |
| lowest | exposure by all routes should be carefully controlled to levels as low as possible |
| partml | particles/ml |
| r | respirable fraction |
| Sn | calculated as Sn (tin) |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un- less otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time- weighted average (unless otherwise specified |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| Physical state | Solid (powder) |
|----------------|----------------|
| Color | Various |
| Particle size | Not available |
| Odor | Characteristic |



acc. to 29 CFR 1910.1200 App D

Cerakote FX

Version number: 1.1

Date of compilation: 12/29/2022

| Other safety parameters | |
|---|---|
| pH (value) | Not applicable |
| Melting point/freezing point | Not determined |
| Initial boiling point and boiling range | 3,000 °C |
| Flash point | Not applicable |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | This material is combustible, but will not ignite readily |
| Explosion limits of dust clouds | Not determined |
| Vapor pressure | 0 Pa at 25 °C |
| Density | Not determined |
| Vapor density | Not available |
| Relative density | Not available |
| Solubility(ies) | Not determined |
| Partition coefficient | |
| - n-octanol/water (log KOW) | Not available |
| Auto-ignition temperature | \geq 400 °C (relative self-ignition temperature for solids) |
| Decomposition temperature | Not relevant |
| Viscosity | Not relevant (solid matter) |
| - Kinematic viscosity | Not relevant |
| Explosive properties | None |
| Oxidizing properties | None |

Hazard classes acc. to GHS (Physical hazards): Not relevant

9.2 Other information

| Temperature class (USA, acc. to NEC 500) | T2 (maximum permissible surface temperature on the equipment: |
|--|---|
| | 300°C) |



acc. to 29 CFR 1910.1200 App D

INNOVATIONS OF NIC INDUSTRIES

Cerakote FX

Version number: 1.1

Date of compilation: 12/29/2022

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Reacts with water.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide, and silicon oxides may be produced from all coating formulations. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture | | | | | | |
|--|--------------|-----------------------|--|--|--|--|
| Name of substance | CAS No | Exposure route | ATE | | | |
| Ceramic Additive | Trade Secret | Inhalation: dust/mist | >2.04 ^{mg} / _l /4h | | | |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.



acc. to 29 CFR 1910.1200 App D

INNOVATIONS OF NIC INDUSTRIES

Cerakote FX

Date of compilation: 12/29/2022

Version number: 1.1

Carcinogenicity

Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | Classification | Number |
|-------------------|----------------|--------|
| Synthetic Pigment | 2B | |

Legend 2B

Possibly carcinogenic to humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

acc. to 29 CFR 1910.1200 App D

INNOVATIONS OF NIC INDUSTRIES

Cerakote FX

Version number: 1.1

CERAKOTE

Date of compilation: 12/29/2022

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

PRISMATIC

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

Not subject to transport regulations

- Not assigned
- Not assigned
- Not assigned
- Non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question National regulations (United States)

Toxic Substance Control Act (TSCA)

All ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)



acc. to 29 CFR 1910.1200 App D

Cerakote FX

Version number: 1.1

CERAKOTE

Date of compilation: 12/29/2022

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

None of the ingredients are listed.

INNOVATIONS OF NIC INDUSTRIES

- Specific Toxic Chemical Listings (EPCRA Section 313)

None of the ingredients are listed.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) None of the ingredients are listed.

Clean Air Act

None of the ingredients are listed.

Right to Know Hazardous Substance List

- Hazardous Substances List (MN-ERTK)

| Name of substance | References | Remarks |
|-------------------|------------|---------|
| Ceramic Additive | А | |
| Synthetic Pigment | А | |

Legend

American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH

- Hazardous Substance List (NJ-RTK)

| Name of substance | Remarks | Classifications |
|-------------------|---------|-----------------|
| Ceramic Additive | | |
| Synthetic Pigment | | |

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name of substance | Classification |
|-------------------|----------------|
| Synthetic Pigment | |

- Hazardous Substance List (RI-RTK)

| Name of substance | References |
|-------------------|------------|
| Synthetic Pigment | Т |

Legend

Toxicity (ACGIH®)



acc. to 29 CFR 1910.1200 App D

INNOVATIONS OF NIC INDUSTRIES

Cerakote FX

Version number: 1.1

Date of compilation: 12/29/2022

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

| Name of substance | Remarks | Type of the toxicity |
|-------------------|---|----------------------|
| Synthetic Pigment | airborne, unbound particles of res- pirable size | cancer |

VOC content

All Cerakote coatings are VOC compliant under the EPA and have low to no VOC content. To find out the VOC content of an individual coating please contact sds@nicindustries.com for more information.

Industry or sector specific available guidance(s)

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of haz- ard | Description |
|----------------|-----------------------|---|
| Flammability | 2 | Material that must be moderately heated or exposed to relatively high ambient temper- atures before ignition can occur |
| Health | 0 | Material that, under emergency conditions, would offer no hazard beyond that of ordin- ary combustible material |
| Instability | 0 | Material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| AU | AIIC | All ingredients are listed |
| CA | DSL | All ingredients are listed |
| CN | IECSC | All ingredients are listed |
| EU | ECSI | All ingredients are listed |
| EU | REACH Reg. | All ingredients are listed |
| JP | CSCL-ENCS | Not all ingredients are listed |
| JP | ISHA-ENCS | Not all ingredients are listed |
| KR | KECI | All ingredients are listed |
| MX | INSQ | Not all ingredients are listed |
| NZ | NZIoC | All ingredients are listed |
| PH | PICCS | All ingredients are listed |
| TR | CICR | All ingredients are listed |



acc. to 29 CFR 1910.1200 App D

INNOVATIONS OF NIC INDUSTRIES

Version number: 1.1

Cerakote FX

Date of compilation: 12/29/2022

| Country | Inventory | Status |
|--|--|--|
| TW | TCSI | All ingredients are listed |
| US | TSCA | All ingredients are listed |
| Legend AIIC CICR CSCL-ENCS DSL ECSI IECSC INSQ ISHA-ENCS KECI NZIOC PICCS REACH Reg. TCSI TSCA | Domestic Substances List (D EC Substance Inventory (EIN Inventory of Existing Chemii National Inventory of Chem Inventory of Existing and Ne Korea Existing Chemicals Inv New Zealand Inventory of C | ntrol Regulation mical Substances (CSCL-ENCS) ISL) IECS, ELINCS, NLP) cal Substances Produced or Imported in China ical Substances w Chemical Substances (ISHA-ENCS) <i>v</i> entory hemicals nicals and Chemical Substances (PICCS) 25 Inventory |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Sub- stances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® | American Conference of Governmental Industrial Hygienists |
| ACGIH® 2022 | From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presenta-tions/tlv-bei-position-statement |
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IARC | International Agency for Research on Cancer |
| ΙΑΤΑ | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |

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INNOVATIONS OF NIC INDUSTRIES

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Cerakote FX

Version number: 1.1

Date of compilation: 12/29/2022

| Abbr. | Descriptions of used abbreviations |
|-----------|---|
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| STEL | Short-term exposure limit |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|------------------------------|
| H351 | Suspected of causing cancer. |