

Prismatic Powders P-Series

Version number: 2.1

Revision: 01/03/2023

SECTION 1: Identification

1.1 Product identifier

Trade name **Prismatic Powders P-Series**

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

Relevant identified uses **General use**

1.3 Details of the supplier of the safety data sheet

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

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)

| Classification acc. to GHS | | | | |
|----------------------------|----------------------------------------------------|------------|---------------------------|------------------|
| Section | Hazard class | Category | Hazard class and category | Hazard statement |
| A.11 | Acute toxicity (inhal.) | 4 | Acute Tox. 4 | H332 |
| A.3 | Serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| A.4S | Skin sensitization | 1 | Skin Sens. 1 | H317 |
| A.5 | Germ cell mutagenicity | 1B | Muta. 1B | H340 |
| A.6 | Carcinogenicity | 1A | Carc. 1A | H350 |
| A.9 | Specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |
| B.cD | Combustible dust | Comb. Dust | cD | OSHA003 |

For full text of abbreviations: see SECTION 16.

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The most important adverse physicochemical, human health and environmental effects
Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

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

- Signal word

DANGER

- Pictograms

GHS05, GHS07, GHS08



- Hazard statements

| | |
|---------|--------------------------------------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| OSHA003 | May form combustible dust concentrations in air. |

- Precautionary statements

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear eye protection/face protection. |
| P302+P352 | If on skin: Wash with plenty of water. |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a poison center/doctor. |
| P321 | Specific treatment (see on this label). |
| P363 | Wash contaminated clothing before reuse. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to industrial combustion plant. |

- Hazardous ingredients for labelling

1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-
2,4,6(1H,3H,5H)-trione, Quartz (SiO₂), Aluminum

2.3 Other hazards

Hazards not otherwise classified

Contains epoxy constituents. May produce an allergic reaction.
May be harmful if swallowed (GHS category 5: acutely toxic - oral).

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% |
|------------------------------------------------------------------|----------------------|-----------|
| Titanium dioxide | CAS No 13463-67-7 | 25 - < 50 |
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione | CAS No 2451-62-9 | 10 - < 25 |
| Aluminum | CAS No 7429-90-5 | 10 - < 25 |
| Carbon black | CAS No 1333-86-4 | 5 - < 10 |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | CAS No 126-86-3 | 1 - < 5 |
| Quartz (SiO ₂) | CAS No 14808-60-7 | < 1 |

* Although TGIC is listed as a constituent for Prismatic Powders P-Series, TGIC is not present in every color in the series. To find out if a color contains TGIC please contact NIC Industries for verification.

** 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

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.

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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.

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SECTION 7: Handling and storage

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

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. 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

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|----------------------------------------------------------------|----------------------------------------------|--------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|-----------------|------------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | Particulates not otherwise classified | | REL | | | | | | | appx-D | NIOSH REL |
| US | Particulates not otherwise classified (PNOC) | | PEL | 1,766 | 15 | | | | | partml, i, dust | 29 CFR 1910.1000 |
| US | Particulates not otherwise classified (PNOC) | | PEL | 529.5 | 5 | | | | | partml, r, dust | 29 CFR 1910.1000 |
| US | Particulates not otherwise regulated | | PEL (CA) | | 10 | | | | | dust | Cal/ OSHA PEL |

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Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|---------------------------------------------------------------------|------------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------------------|------------------|
| US | Particulates not otherwise regulated | | PEL (CA) | | 5 | | | | | r | Cal/ OSHA PEL |
| US | Carbon black | 1333-86-4 | PEL (CA) | | 3.5 | | | | | | Cal/ OSHA PEL |
| US | Carbon black | 1333-86-4 | PEL | | 3.5 | | | | | | 29 CFR 1910.1000 |
| US | Carbon black | 1333-86-4 | REL | | 3.5 (10 h) | | | | | appx-A, appx-C | NIOSH REL |
| US | Carbon black | 1333-86-4 | TLV® | | 3 | | | | | i | ACGIH® 2022 |
| US | Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs) | 1333-86-4 | REL | | 0.1 (10 h) | | | | | PAHs, appx-A, appx-C | NIOSH REL |
| US | Titanium dioxide | 13463-67-7 | PEL | | 15 | | | | | i, dust | 29 CFR 1910.1000 |
| US | Titanium dioxide | 13463-67-7 | REL | | | | | | | lowest, appx-A | NIOSH REL |
| US | Titanium dioxide - finescale particles | 13463-67-7 | TLV® | | 2.5 | | | | | r | ACGIH® 2022 |
| US | Titanium dioxide - nanoscale particles | 13463-67-7 | TLV® | | 0.2 | | | | | r | ACGIH® 2022 |
| US | Quartz | 14808-60-7 | PEL (CA) | | 0.05 | | | | | r | Cal/ OSHA PEL |
| US | Silica, crystalline - quartz | 14808-60-7 | PEL | | 0.05 | | | | | r | 29 CFR 1910.1000 |
| US | Silica, crystalline - quartz | 14808-60-7 | REL | | 0.05 (10 h) | | | | | r, appx-A | NIOSH REL |
| US | 1,3,5-triglycidyl-s-triazinetrione | 2451-62-9 | PEL (CA) | | 0.005 | | | | | | Cal/ OSHA PEL |
| US | 1,3,5-triglycidyl-s-triazinetrione | 2451-62-9 | TLV® | | 0.05 | | | | | | ACGIH® 2022 |
| US | Aluminium | 7429-90-5 | PEL (CA) | | 10 | | | | | dust | Cal/ OSHA PEL |

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Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|---------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|-----------|------------------|
| US | Aluminium | 7429-90-5 | REL | | 5 (10 h) | | | | | fume_weld | NIOSH REL |
| US | Aluminium | 7429-90-5 | REL | | 10 (10 h) | | | | | i | NIOSH REL |
| US | Aluminium | 7429-90-5 | PEL | | 15 | | | | | i, dust | 29 CFR 1910.1000 |
| US | Aluminium | 7429-90-5 | PEL (CA) | | 5 | | | | | pyro_p | Cal/ OSHA PEL |
| US | Aluminium | 7429-90-5 | REL | | 5 (10 h) | | | | | pyro_p | NIOSH REL |
| US | Aluminium | 7429-90-5 | PEL (CA) | | 5 | | | | | r | Cal/ OSHA PEL |
| US | Aluminium | 7429-90-5 | REL | | 5 (10 h) | | | | | r | NIOSH REL |
| US | Aluminium | 7429-90-5 | TLV® | | 1 | | | | | r | ACGIH® 2022 |
| US | Aluminium | 7429-90-5 | PEL | | 5 | | | | | r, dust | 29 CFR 1910.1000 |

Notation

- appx-A NIOSH Potential Occupational Carcinogen (Appendix A)
- appx-C Appendix C - Supplementary Exposure Limits
- appx-D see Appendix D - Substances with No Established RELS
- Ceiling-C ceiling value is a limit value above which exposure should not occur
- dust as dust
- fume_weld as welding fumes
- i inhalable fraction
- lowest exposure by all routes should be carefully controlled to levels as low as possible
- PAHs as polycyclic aromatic hydrocarbons (PAHs)
- partml particles/ml
- pyro_p as pyrophoric powder
- r respirable fraction
- STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless 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.

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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 | Not determined |
| Particle size | Not available |
| Odor | Characteristic |

Other safety parameters

| | |
|-----------------------------------------|-----------------------------------------------------------|
| pH (value) | Not applicable |
| Melting point/freezing point | Not determined |
| Initial boiling point and boiling range | >240 °C at 103,500 Pa |
| 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 | 0.006 hPa at 20 °C |
| Density | Not determined |
| Vapor density | Not available |

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| | |
|------------------------------------|------------------------------------|
| Relative density | Not available |
| Solubility(ies) | Not determined |
| Partition coefficient | |
| - n-octanol/water (log KOW) | Not available |
| Auto-ignition temperature | 183 °C |
| Decomposition temperature | Not relevant |
| Viscosity | |
| - Kinematic viscosity | Not relevant (solid matter) |
| Explosive properties | None |
| Oxidizing properties | None |
| There is no additional information | |
| 9.2 Other information | There is no additional information |

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.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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.

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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

Harmful if inhaled.

GHS of the United Nations, annex 4: May be harmful if swallowed.

- Acute toxicity estimate (ATE)

Inhalation: dust/mist 4.095 mg/l/4h

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|------------------------------------------------------------------|-----------|-----------------------|----------------|
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione | 2451-62-9 | Oral | >400 mg/kg |
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione | 2451-62-9 | Inhalation: dust/mist | 1.14 mg/l/4h |
| Aluminum | 7429-90-5 | Inhalation: dust/mist | >0.888 mg/l/4h |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | 126-86-3 | Oral | >500 mg/kg |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No | Classification | Number |
|----------------------------|------------|----------------|--------|
| Carbon black | 1333-86-4 | 2B | |
| Titanium dioxide | 13463-67-7 | 2B | |
| Quartz (SiO ₂) | 14808-60-7 | 1 | |

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Legend

- 1 Carcinogenic to humans
- 2B Possibly carcinogenic to humans

| National Toxicology Program (United States): Report on Carcinogens | | | |
|--------------------------------------------------------------------|-----------|-------------------------------|---------------------------|
| Name of substance | CAS No | Classification | Number |
| Carbon black | 1333-86-4 | Known to be human carcinogens | 1st Report on Carcinogens |

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

May cause damage to organs through prolonged or 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.

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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

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 | Not assigned |
| 14.2 UN proper shipping name | Not assigned |
| 14.3 Transport hazard class(es) | Not assigned |
| 14.4 Packing group | Not assigned |
| 14.5 Environmental hazards | 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 assigned.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not assigned.

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)

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

None of the ingredients are listed.

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No | Remarks | Effective date |
|-------------------|-----------|--------------|----------------|
| Aluminum | 7429-90-5 | Fume or dust | 12/31/1986 |

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

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|-----------|----------|-----------------|---------------------|------------------------------------|
| Aluminum | 7429-90-5 | | | | 1.0 % |
| Quartz (SiO2) | | 1095 | | | 1.0 % |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-------------------|------------|---------------|---------|
| Carbon black | 1333-86-4 | A, N, O, R, * | |
| Aluminum | 7429-90-5 | A | |
| Aluminum | 7429-90-5 | A | Fume |
| Aluminum | 7429-90-5 | A | Dust |
| Titanium dioxide | 13463-67-7 | A | |
| Quartz (SiO2) | | A, * | |

Legend

- * Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
- A 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
- dust If the substance poses an airborne particulate exposure hazard, the substance is followed by the word "dust."
- fume Small solid particles formed by the condensation of vapors of solid materials.
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

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R International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|------------------------------------------------------------------|------------|---------|-----------------|
| Carbon black | 1333-86-4 | | CA |
| Aluminum | 7429-90-5 | | F3 R1 |
| Titanium dioxide | 13463-67-7 | | |
| 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione | 2451-62-9 | | |
| Quartz (SiO ₂) | 14808-60-7 | | CA |

Legend

CA Carcinogenic
 F3 Flammable - Third Degree
 R1 Reactive - First Degree

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

| Name of substance | CAS No | Classification |
|-------------------|------------|----------------|
| Carbon black | 1333-86-4 | |
| Aluminum | 7429-90-5 | E |
| Titanium dioxide | 13463-67-7 | |

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|----------------------------|------------|------------|
| Carbon black | 1333-86-4 | T |
| Aluminum | 7429-90-5 | T, F |
| Titanium dioxide | 13463-67-7 | T |
| Quartz (SiO ₂) | 14808-60-7 | T |

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F Flammability (NFPA®)
 T Toxicity (ACGIH®)

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

| Proposition 65 List of chemicals | | | |
|----------------------------------|------------|------------------------------------------------|----------------------|
| Name acc. to inventory | CAS No | Remarks | Type of the toxicity |
| Carbon black | 1333-86-4 | Airborne, unbound particles of respirable size | Cancer |
| Titanium dioxide | 13463-67-7 | Airborne, unbound particles of respirable size | Cancer |

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 hazard | Description |
|----------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| Flammability | 2 | Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health | 3 | Material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | Material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|---------------------------------|
| AU | AIC | 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 | All ingredients are listed. |
| NZ | NZIoC | All ingredients are listed. |
| PH | PICCS | All ingredients are listed. |
| TR | CICR | All ingredients are listed. |

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| Country | Inventory | Status |
|---------|-----------|-----------------------------|
| TW | TCSI | All ingredients are listed. |
| US | TSCA | All ingredients are listed. |

Legend

| | |
|------------|-------------------------------------------------------------------------|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

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 Substances (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-presentations/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 |
| DEP CODE | Department of Environmental Protection Code |
| 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 |
| HHS | Higher hazard substance |
| IARC | International Agency for Research on Cancer |

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| Abbr. | Descriptions of used abbreviations |
|-----------|-----------------------------------------------------------------------------------------------------|
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LHS | Lower hazard substance |
| NFPA® | National Fire Protection Association (United States) |
| 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 |
| 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 |
|------|--------------------------------------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |



INNOVATIONS OF **NIC INDUSTRIES**

Safety Data Sheet

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| Code | Text |
|---------|--------------------------------------------------|
| OSHA003 | May form combustible dust concentrations in air. |