

Diamond impregnated segments

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/24/2018

Revision date: 10/24/2018

Supersedes: 12/21/2015

Version: 1.2

SECTION 1: Identification

1.1. Identification

| | |
|--------------|------------------------------|
| Product form | Diamond impregnated segments |
| Trade name | Diamond Bits/Blades |
| Product code | BU Diamond |

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

| | |
|------------------------------|---|
| Use of the substance/mixture | Cutting of different kinds of materials |
|------------------------------|---|

1.3. Details of the supplier of the safety data sheet

| | |
|--|---|
| Supplier Hilti, Inc. Legacy Tower, Suite 1000 7250 Dallas Parkway TX 75024 Plano - USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522 | Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906310 - F +49 8191 90176310 anchor.hse@hilti.com |
|--|---|

1.4. Emergency telephone number

| | |
|------------------|---|
| Emergency number | Chem-Trec Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada) Tel.: 703 527 3887 (Other countries) +1 918 8723000 1-800-879-8000 toll free |
|------------------|---|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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| Name | Product identifier | % | GHS-US classification |
|--------------------------------------|----------------------|----------|---|
| copper, powder | (CAS-No.) 7440-50-8 | 0.1 - 90 | Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| iron | (CAS-No.) 7439-89-6 | 0.1 - 90 | Not classified |
| nickel | (CAS-No.) 7440-02-0 | 0.1 - 50 | Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 |
| tungsten | (CAS-No.) 7440-33-7 | 0.1 - 50 | Not classified |
| cobalt | (CAS-No.) 7440-48-4 | 0.1 - 30 | Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Chronic 4, H413 |
| tungsten carbide | (CAS-No.) 12070-12-1 | 0.1 - 10 | Carc. 1B, H350 STOT RE 2, H373 |
| chromium | (CAS-No.) 7440-47-3 | 0.1 - 5 | Not classified |
| zinc powder - zinc dust (stabilised) | (CAS-No.) 7440-66-6 | 0.1 - 5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Diamond | (CAS-No.) 7782-40-3 | 0.1 - 5 | Not classified |
| tin | (CAS-No.) 7440-31-5 | <= 3 | Not classified |
| manganese | (CAS-No.) 7439-96-5 | <= 2 | Not classified |
| molybdenum | (CAS-No.) 7439-98-7 | 0.1 - 1 | Aquatic Acute 1, H400 |
| phosphorus, red | (CAS-No.) 7723-14-0 | <= 1 | Flam. Sol. 1, H228 Aquatic Chronic 3, H412 |
| graphite | (CAS-No.) 7782-42-5 | 0.1 - 1 | Not classified |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area. |
| First-aid measures after skin contact | Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | Rinse mouth. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|---|---|
| Potential adverse human health effects and symptoms | Irritation: may cause irritation to the respiratory system. |
| Symptoms/effects after inhalation | May cause respiratory irritation. |
| Symptoms/effects after eye contact | May cause severe irritation. |

4.3. Immediate medical attention and special treatment, if necessary

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|------------------------------------|
| Suitable extinguishing media | Water. Sand. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------|--|
| Fire hazard | Not flammable. |
| Reactivity | The product is non-reactive under normal conditions of use, storage and transport. Product is not explosive. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Protection during firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |
|--------------------------------|---|

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| | | |
|---|-------------------------------------|--|
| tungsten carbide (12070-12-1) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ (Respirable fraction) |
| zinc powder - zinc dust (stabilised) (7440-66-6) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ |
| chromium (7440-47-3) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.5 mg/m ³ |
| Diamond (7782-40-3) | | |
| Not applicable | | |
| molybdenum (7439-98-7) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ (Respirable fraction) 10 mg/m ³ (Inhalable fraction) |
| manganese (7439-96-5) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.02 mg/m ³ |
| ACGIH | Remark (ACGIH) | CNS impair; A4 |
| phosphorus, red (7723-14-0) | | |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 0.1 mg/m ³ |
| graphite (7782-42-5) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ (Respirable fraction) |

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Personal protective equipment

Dust formation: dust mask. In case of dust production: protective goggles.



Hand protection

Wear leather gloves.

Eye protection

Safety glasses.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

Other information

Hazardous dust of the workpiece material may be generated during grinding / drilling and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration as part of the job hazard assessment.

Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid

Colour

Mixture contains one or more component(s) which have the following colour(s):
Metallic red On exposure to air: turns green Silvery-grey to black Silvery Metallic silvery-grey or silvery-white Metallic grey or red-grey Metallic silvery-white Metallic grey-black Metallic white to silvery Red to brown Silvery-white to grey Grey Grey to black Light grey Grey-black

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| | |
|--|--|
| Odour | There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Odourless Garlic odour |
| Odour threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Flammability (solid, gas) | No data available |
| Explosive limits | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Vapour pressure | No data available |
| Relative density | No data available |
| Relative vapour density at 20 °C | No data available |
| Solubility | insoluble in water. |
| Log Pow | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | > 400 °C |
| Viscosity | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Product is not explosive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

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| | |
|---|---|
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| Potential adverse human health effects and symptoms | Irritation: may cause irritation to the respiratory system. |
| Symptoms/effects after inhalation | May cause respiratory irritation. |
| Symptoms/effects after eye contact | May cause severe irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| copper, powder (7440-50-8) | |
|----------------------------|---|
| LC50 fish 1 | 200 µg/l (96 h, Salmo gairdneri, Flow-through system, Fresh water, Weight of evidence, Lethal) |
| EC50 Daphnia 1 | 109 - 798 µg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, Locomotor effect) |

| tin (7440-31-5) | |
|-----------------|---|
| LC50 fish 1 | > 12.4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | > 19.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Salt water, Experimental value, GLP) |

| zinc powder - zinc dust (stabilised) (7440-66-6) | |
|--|---|
| LC50 fish 1 | 0.169 mg/l (Other, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Zinc ion) |
| EC50 Daphnia 1 | 1.833 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Zinc ion) |
| LC50 fish 2 | 0.78 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Read-across) |
| ErC50 (algae) | 0.15 mg/l |

| molybdenum (7439-98-7) | |
|------------------------|------------------------------------|
| LC50 fish 1 | 0.79 mg/l (672 h, Salmo gairdneri) |

| phosphorus, red (7723-14-0) | |
|-----------------------------|--|
| LC50 fish 1 | 33.2 mg/l (96 h, Brachydanio rerio, Nominal concentration) |
| EC50 Daphnia 1 | 10.5 mg/l (48 h, Daphnia magna, Nominal concentration) |

| graphite (7782-42-5) | |
|----------------------|--|
| LC50 fish 1 | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1 | > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) |

12.2. Persistence and degradability

| copper, powder (7440-50-8) | |
|---------------------------------|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| iron (7439-89-6) | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |

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| | |
|---|---|
| iron (7439-89-6) | |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| tungsten (7440-33-7) | |
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| nickel (7440-02-0) | |
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| cobalt (7440-48-4) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| tin (7440-31-5) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable (inorganic) |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |
| tungsten carbide (12070-12-1) | |
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| zinc powder - zinc dust (stabilised) (7440-66-6) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| chromium (7440-47-3) | |
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |

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| chromium (7440-47-3) | |
|------------------------------|----------------|
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| molybdenum (7439-98-7) | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| manganese (7439-96-5) | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| phosphorus, red (7723-14-0) | |
|------------------------------------|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| graphite (7782-42-5) | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| copper, powder (7440-50-8) | |
|-----------------------------------|----------------------------------|
| Bioaccumulative potential | Bioaccumulation: not applicable. |

| iron (7439-89-6) | |
|-------------------------|-------------------------|
| Log Pow | -0.77 (Estimated value) |

| tungsten (7440-33-7) | |
|-----------------------------|--|
| Log Pow | 0.23 (Estimated value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| nickel (7440-02-0) | |
|---------------------------|-------------------------|
| Log Pow | -0.57 (Estimated value) |
| Bioaccumulative potential | Not bioaccumulative. |

| tin (7440-31-5) | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

| tungsten carbide (12070-12-1) | |
|--------------------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

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| zinc powder - zinc dust (stabilised) (7440-66-6) | |
|---|--|
| BCF other aquatic organisms 1 | 116 (21 day(s), Semi-static system, Salt water, Read-across) |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| chromium (7440-47-3) | |
| BCF fish 1 | 0.0048 (Pisces, Dry weight) |
| BCF other aquatic organisms 1 | 0.443 (Lamellibranchiata, Dry weight) |
| Bioaccumulative potential | Not bioaccumulative. |
| molybdenum (7439-98-7) | |
| BCF fish 1 | 260 - 500 (Tilapia rendalli) |
| Bioaccumulative potential | No bioaccumulation data available. |
| manganese (7439-96-5) | |
| BCF fish 1 | 81 (Pisces) |
| BCF other aquatic organisms 1 | 300000 (Mollusca) |
| BCF other aquatic organisms 2 | 125000 (Crustacea) |
| graphite (7782-42-5) | |
| Bioaccumulative potential | No bioaccumulation data available. |

12.4. Mobility in soil

| copper, powder (7440-50-8) | |
|---|---|
| Ecology - soil | Adsorbs into the soil. |
| iron (7439-89-6) | |
| Ecology - soil | Adsorbs into the soil. |
| tungsten (7440-33-7) | |
| Ecology - soil | Adsorbs into the soil. |
| nickel (7440-02-0) | |
| Surface tension | Not applicable (solid) |
| Ecology - soil | No (test)data on mobility of the substance available. |
| tin (7440-31-5) | |
| Ecology - soil | Adsorbs into the soil. |
| tungsten carbide (12070-12-1) | |
| Ecology - soil | Adsorbs into the soil. |
| zinc powder - zinc dust (stabilised) (7440-66-6) | |
| Ecology - soil | No (test)data on mobility of the substance available. |
| chromium (7440-47-3) | |
| Ecology - soil | Adsorbs into the soil. |
| molybdenum (7439-98-7) | |
| Ecology - soil | Adsorbs into the soil. |
| manganese (7439-96-5) | |
| Ecology - soil | Adsorbs into the soil. |
| phosphorus, red (7723-14-0) | |
| Ecology - soil | Not toxic to plants. |

12.5. Other adverse effects

Other information

Do not allow the product, as is, to spread into the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional legislation (waste) | Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. |
| Ecology - waste materials | Avoid release to the environment. Hazardous waste due to toxicity. |

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | RID |
|---|--|---------------------------------------|---------------------------------------|
| 14.1. UN number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | |

14.6. Special precautions for user

- Overland transport

- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID) No

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

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|--------------------------------------|-------------------|-----------|
| copper, powder | CAS-No. 7440-50-8 | 0.1 - 90% |
| nickel | CAS-No. 7440-02-0 | 0.1 - 50% |
| cobalt | CAS-No. 7440-48-4 | 0.1 - 30% |
| zinc powder - zinc dust (stabilised) | CAS-No. 7440-66-6 | 0.1 - 5% |
| chromium | CAS-No. 7440-47-3 | 0.1 - 5% |
| manganese | CAS-No. 7439-96-5 | <= 2% |
| phosphorus, red | CAS-No. 7723-14-0 | <= 1% |

| | |
|-----------------------------------|---------|
| copper, powder (7440-50-8) | |
| CERCLA RQ | 5000 lb |

| | |
|---------------------------|--------|
| nickel (7440-02-0) | |
| CERCLA RQ | 100 lb |

| | |
|---|---------|
| zinc powder - zinc dust (stabilised) (7440-66-6) | |
| CERCLA RQ | 1000 lb |

| | |
|-----------------------------|---------|
| chromium (7440-47-3) | |
| CERCLA RQ | 5000 lb |

| | |
|--|--------|
| phosphorus, red (7723-14-0) | |
| CERCLA RQ | 1 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 100 lb |

15.2. International regulations

CANADA

No additional information available

EU-Regulations


No additional information available

National regulations

| | |
|--|--|
| nickel (7440-02-0) | |
| Listed on IARC (International Agency for Research on Cancer) | |
| Listed as carcinogen on NTP (National Toxicology Program) | |

| | |
|--|--|
| tungsten carbide (12070-12-1) | |
| Listed on IARC (International Agency for Research on Cancer) | |

15.3. US State regulations

 **WARNING:** This product can expose you to cobalt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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| Component | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|-------------------|-----------------|------------------------|----------------------------|------------------------------|----------------------------------|-------------------------------------|
| cobalt(7440-48-4) | X | | | | | |
| nickel(7440-02-0) | X | | | | | |

| Component | State or local regulations |
|---|----------------------------|
| copper, powder(7440-50-8) | |
| cobalt(7440-48-4) | |
| chromium(7440-47-3) | |
| iron(7439-89-6) | |
| manganese(7439-96-5) | |
| molybdenum(7439-98-7) | |
| nickel(7440-02-0) | |
| phosphorus, red(7723-14-0) | |
| tin(7440-31-5) | |
| tungsten(7440-33-7) | |
| tungsten carbide(12070-12-1) | |
| zinc powder - zinc dust (stabilised)(7440-66-6) | |
| Diamond(7782-40-3) | |
| graphite(7782-42-5) | |

SECTION 16: Other information

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Full text of H-statements:

| | |
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| H228 | Flammable solid. |
| H317 | May cause an allergic skin reaction. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

NFPA health hazard

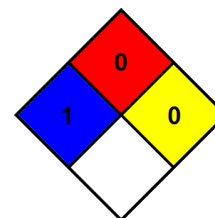
1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

0 Minimal Hazard - Materials that will not burn

Physical

0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

| Section | Changed item | Change | Comments |
|---------|--------------|----------|----------|
| 1 | Name | Modified | |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product