


Section 1. Identification

GHS product identifier :  Damon® Q™; Damon® 3MX™; Alias; SnapLink™ Buccal Tubes; Drop-in Hook

Product code : Not available.

Other means of identification : Not available.

Product type : Solid.

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

Product use : Dental product: Orthodontic Appliance
This product, under the normal conditions of use, meets the definition of an "ARTICLE".

Area of application : Professional applications.

Manufacturer : **Ormco Corporation**
1332 S. Lone Hill Avenue
Glendora, CA 91740-5339
Telephone no.: 1-800-854-1741


e-mail address of person responsible for this SDS : OrmcoCustCare@sybrondental.com

Emergency telephone number (with hours of operation) : CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status : While this material is an article and exempted by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 37%
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 37%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 37%

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Date of issue/Date of revision : 09/05/2019 **Date of previous issue** : 05/01/2017 **Version** : 3 1/14

Section 2. Hazards identification

- Disposal** : Not applicable.
- Hazards not otherwise classified** : If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

| Ingredient name | Other names | % | CAS number |
|--------------------------|-------------|-----------|------------|
| Nickel | - | ≥10 - ≤25 | 7440-02-0 |
| lead powder | - | ≤1 | 7439-92-1 |
| arsenic | - | ≤1 | 7440-38-2 |
| Cadmium (Non-pyrophoric) | - | ≤1 | 7440-43-9 |
| manganese | - | ≤1 | 7439-96-5 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Inhalation** : No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
- Skin contact** : No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
metal oxide/oxides

Special protective actions for fire-fighters : In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely

For emergency responders : Low release. See also the information in "For non-emergency personnel".

Environmental precautions : No special measures are required.

Methods and materials for containment and cleaning up

Small spill : No special measures required.

Large spill : No special measures required.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : No special measures are required.

Advice on general occupational hygiene : No special measures are required.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--------------------------|--|
| Nickel | ACGIH TLV (United States, 3/2018). TWA: 1.5 mg/m ³ 8 hours. Form: Inhalable fraction |
| | NIOSH REL (United States, 10/2016). TWA: 0.015 mg/m ³ , (as Ni) 10 hours. |
| | OSHA PEL (United States, 5/2018). TWA: 1 mg/m ³ , (as Ni) 8 hours. |
| lead powder | ACGIH TLV (United States, 3/2018). TWA: 0.05 mg/m ³ , (as Pb) 8 hours. |
| | NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m ³ 8 hours. |
| | OSHA PEL (United States, 5/2018). TWA: 50 µg/m ³ , (as Pb) 8 hours. |
| arsenic | ACGIH TLV (United States, 3/2018). TWA: 0.01 mg/m ³ , (as As) 8 hours. |
| | NIOSH REL (United States, 10/2016). CEIL: 0.002 mg/m ³ , (as As) 15 minutes. |
| | OSHA PEL (United States, 5/2018). TWA: 10 µg/m ³ , (as As) 8 hours. |
| Cadmium (Non-pyrophoric) | OSHA PEL (United States, 5/2018). TWA: 5 µg/m ³ , (as Cd) 8 hours. |
| | OSHA PEL Z2 (United States, 2/2013). TWA: 0.2 mg/m ³ 8 hours. Form: Dust |
| | CEIL: 0.6 mg/m ³ Form: Dust |
| | TWA: 0.1 mg/m ³ 8 hours. Form: Fume |
| | CEIL: 0.3 mg/m ³ Form: Fume |
| | ACGIH TLV (United States, 3/2018). TWA: 0.01 mg/m ³ , (as Cd) 8 hours. Form: Inhalable fraction |
| | TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form: Respirable fraction |
| manganese | NIOSH REL (United States, 10/2016). TWA: 1 mg/m ³ , (as Mn) 10 hours. Form: Fume |
| | STEL: 3 mg/m ³ , (as Mn) 15 minutes. Form: Fume |
| | OSHA PEL (United States, 5/2018). CEIL: 5 mg/m ³ , (as Mn) Form: Fume |
| | ACGIH TLV (United States, 3/2018). TWA: 0.1 mg/m ³ , (as Mn) 8 hours. Form: Inhalable fraction |
| | TWA: 0.02 mg/m ³ , (as Mn) 8 hours. Form: Respirable fraction |

Appropriate engineering controls

: No special measures are required for small quantities under normal and intended conditions of product use.

Environmental exposure controls

: No special measures are required for small quantities under normal and intended conditions of product use.

Section 8. Exposure controls/personal protection

Individual protection measures

- Hygiene measures** : No special measures are required for small quantities under normal and intended conditions of product use.
- Eye/face protection** : No special measures are required for small quantities under normal and intended conditions of product use.
- Skin protection**
- Hand protection** : No special protection is required.
- Body protection** : No special measures are required for small quantities under normal and intended conditions of product use.
- Other skin protection** : No special measures are required for small quantities under normal and intended conditions of product use.
- Respiratory protection** : No special measures are required for small quantities under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Solid. [Bracket Assembly]
- Color** : Metallic./Gray.
- Odor** : Odorless.
- Odor threshold** : Not applicable.
- pH** : Not applicable.
- Melting point** : 1470°C (2678°F)
- Boiling point** : Not available.
- Flash point** : Not applicable.
- Evaporation rate** : Not applicable.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not applicable
- Vapor pressure** : Not applicable.
- Vapor density** : Not applicable.
- Relative density** : Not applicable.
- Density** : Not available.
- Solubility** : Insoluble in the following materials: cold water and hot water.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not applicable.
- Flow time (ISO 2431)** : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------|---------------------------------|--------------------|-------------|----------|
| Lead powder | LC50 Inhalation Dusts and mists | Rat - Male, Female | >5.05 mg/l | 4 hours |
| | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | >2000 mg/kg | - |
| arsenic | LD50 Oral | Rat | 763 mg/kg | - |
| Cadmium (Non-pyrophoric) | LD50 Oral | Rat | 225 mg/kg | - |
| manganese | LC50 Inhalation Dusts and mists | Rat | 5.14 mg/l | 4 hours |
| | LD50 Oral | Rat | 9 g/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|----------------------|---------|-------|-------------------------|-------------|
| manganese | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : No mutagenic effect.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Section 11. Toxicological information

| Product/ingredient name | OSHA | IARC | NTP |
|--------------------------|------|------|--|
| Nickel | - | 2B | Reasonably anticipated to be a human carcinogen. |
| lead powder | - | 2B | Reasonably anticipated to be a human carcinogen. |
| arsenic | + | 1 | Known to be a human carcinogen. |
| Cadmium (Non-pyrophoric) | + | 1 | Known to be a human carcinogen. |

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|--------------------------|------------|-------------------|---|
| Nickel | Category 1 | Inhalation | respiratory tract blood system, kidneys and nervous system |
| lead powder | Category 1 | Oral | |
| arsenic | Category 2 | Not determined | blood system, kidneys and nervous system |
| Cadmium (Non-pyrophoric) | Category 1 | Inhalation | bone marrow, liver and nervous system |
| manganese | Category 2 | Not determined | bones, kidneys and lungs central nervous system (CNS) and lungs |

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Lead powder | 2500 | 2500 | N/A | N/A | N/A |
| arsenic | 100 | N/A | N/A | 3 | N/A |
| Cadmium (Non-pyrophoric) | 225 | N/A | N/A | N/A | 0.05 |
| manganese | 9000 | N/A | N/A | N/A | 5.14 |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|------------------------------------|--|----------|
| Nickel lead powder | Acute EC50 2 ppm Marine water | Algae - Macrocytis pyrifera - Young | 4 days |
| | Acute EC50 450 µg/l Fresh water | Aquatic plants - Lemna minor | 4 days |
| | Acute EC50 1000 µg/l Marine water | Daphnia - Daphnia magna | 48 hours |
| | Acute IC50 0.31 mg/l Marine water | Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 47.5 ng/L Fresh water | Fish - Heteropneustes fossilis | 96 hours |
| | Chronic NOEC 100 mg/l Marine water | Algae - Glenodinium halli | 72 hours |
| | Chronic NOEC 3.5 µg/l Fresh water | Fish - Cyprinus carpio | 4 weeks |
| | Acute EC50 105 ppb Marine water | Algae - Chaetoceros sp. - Exponential growth phase | 72 hours |
| | Acute EC50 0.489 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 8000 µg/l Fresh water | Aquatic plants - Lemna minor | 4 days |
| | Acute LC50 530 µg/l Fresh water | Crustaceans - Ceriodaphnia reticulata | 48 hours |
| | Acute LC50 0.594 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |

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: 09/05/2019

Date of previous issue

: 05/01/2017

Version : 3

8/14

Section 12. Ecological information

| | | | |
|-----------------------------------|---|--|----------|
| arsenic | Acute LC50 0.44 ppm Fresh water | Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 0.25 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| Cadmium (Non-pyrophoric) | Chronic NOEC 0.03 µg/l Fresh water | Fish - Cyprinus carpio | 4 weeks |
| | Acute LC50 1700 µg/l Fresh water | Crustaceans - Simocephalus vetulus | 48 hours |
| | Acute LC50 1900 µg/l Fresh water | Daphnia - Daphnia pulex | 48 hours |
| | Acute LC50 9900 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| manganese | Acute EC50 97 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |
| | Acute EC50 0.095 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 200 µg/l Fresh water | Aquatic plants - Lemna minor | 4 days |
| | Acute EC50 13.5 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 0.072 µg/l Marine water | Crustaceans - Amphipoda - Adult | 48 hours |
| | Acute LC50 1 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 2 µg/l Fresh water | Algae - Parachlorella kessleri - Exponential growth phase | 72 hours |
| | Chronic NOEC 0.02 µg/l Fresh water | Fish - Cyprinus carpio | 4 weeks |
| | Acute EC50 31000 µg/l Fresh water | Aquatic plants - Lemna minor | 4 days |
| | Acute LC50 29000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Acute LC50 28 mg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| Chronic NOEC 1.7 mg/l Fresh water | Daphnia - Water Flea - Ceriodaphnia dubia | 8 days | |

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

| | DOT Classification | IMDG | IATA |
|----------------------------|--------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class(es) | - | - | - |
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |

Additional information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations :

- TSCA 6 proposed risk management:** lead powder
- TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
- United States inventory (TSCA 8b):** All components are listed or exempted.
- Clean Water Act (CWA) 307:** chromium; Nickel; copper; Cadmium (Non-pyrophoric); arsenic; lead powder
- Clean Water Act (CWA) 311:** red phosphorus

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

| Name | % | EHS | SARA 302 TPQ | | SARA 304 RQ | |
|----------------|------|------|--------------|-----------|-------------|-----------|
| | | | (lbs) | (gallons) | (lbs) | (gallons) |
| Red phosphorus | ≤0.1 | Yes. | 100 | - | 1 | - |

SARA 304 RQ : 2797.2 lbs / 1269.9 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

| Name | % | Classification |
|--------------------------|-----------|--|
| Nickel | ≥10 - ≤25 | SKIN SENSITIZATION - Category 1 CARCINOGENICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) - Category 1 |
| titanium | ≤5 | FLAMMABLE SOLIDS - Category 1 PYROPHORIC SOLIDS - Category 1 |
| lead powder | ≤1 | CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 1A TOXIC TO REPRODUCTION (Unborn child) - Category 1A TOXIC TO REPRODUCTION - Effects on or via lactation SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, kidneys, nervous system) (oral) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, kidneys, nervous system) (inhalation) - Category 1 |
| arsenic | ≤1 | ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow, liver, nervous system) - Category 2 |
| Cadmium (Non-pyrophoric) | ≤1 | ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 2 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bones, kidneys, lungs) (inhalation) - Category 1 |
| manganese | ≤1 | FLAMMABLE SOLIDS - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), lungs) - Category 2 |

SARA 313

Section 15. Regulatory information

| | Product name | CAS number | % |
|--|--------------------------|------------|-----------|
| Form R - Reporting requirements | Nickel | 7440-02-0 | ≥10 - ≤25 |
| | chromium | 7440-47-3 | ≥10 - ≤25 |
| | copper | 7440-50-8 | ≤3 |
| | lead powder | 7439-92-1 | ≤1 |
| | arsenic | 7440-38-2 | ≤1 |
| | Cadmium (Non-pyrophoric) | 7440-43-9 | ≤1 |
| Supplier notification | Nickel | 7440-02-0 | ≥10 - ≤25 |
| | chromium | 7440-47-3 | ≥10 - ≤25 |
| | copper | 7440-50-8 | ≤3 |
| | lead powder | 7439-92-1 | ≤1 |
| | arsenic | 7440-38-2 | ≤1 |
| | Cadmium (Non-pyrophoric) | 7440-43-9 | ≤1 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: The following components are listed: CHROMIUM; NICKEL; NICKEL CATALYST; COPPER

New York

: The following components are listed: Chromium; Nickel; Copper; Cadmium; Arsenic; Lead

New Jersey

: The following components are listed: CHROMIUM; NICKEL; COPPER; CADMIUM; ARSENIC; LEAD; TITANIUM

Pennsylvania

: The following components are listed: CHROMIUM COMPOUNDS; NICKEL CATALYST; COPPER FUME; CADMIUM DUST; ARSENIC COMPOUNDS; LEAD COMPOUNDS

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

| Ingredient name | List name | Status |
|-----------------|------------------------|--------|
| Cadmium (Cd) | Heavy metals - Annex 1 | Listed |
| Lead (Pb) | Heavy metals - Annex 1 | Listed |

Section 16. Other information

Hazardous Material Information System (U.S.A.)

| | | |
|------------------|---|---|
| Health | / | 0 |
| Flammability | | 0 |
| Physical hazards | | 0 |
| | | |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

History

Date of issue/Date of revision : 09/05/2019

Date of previous issue : 05/01/2017

Version : 3

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 UN = United Nations

References

: HCS (U.S.A.)- Hazard Communication Standard
 International transport regulations

Section 16. Other information

✔ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.