

PVC BRONZE 56

Version Number 1.2 Revision Date 04/26/2019 Page 1 of 16 Print Date 04/30/2019

SAFETY DATA SHEET

PVC BRONZE 56

Section 1. Identification

GHS product identifier : PVC BRONZE 56

Chemical name: MixtureCAS number: MixtureOther means of identification: CC10238078

Product type : solid

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

Product use : Industrial applications. Plastics.

Supplier's details : POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number

(with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : While this material is not considered hazardous 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.

GHS label elements



PVC BRONZE 56

Version Number 1.2 Page 2 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General:Not applicable.Prevention:Not applicable.Response:Not applicable.Storage:Not applicable.Disposal:Not applicable.Supplemental label elements:None known.Hazards not otherwise classified:None known.

Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: CC10238078

CAS number/other identifiers

| Ingredient name | % | CAS number |
|---|--------|------------|
| Diundecyl phthalate | 5 - 10 | 3648-20-2 |
| | | |
| | | |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, | 5 - 10 | 68515-48-0 |
| C9-rich | | |
| | | |
| Carbon black | 3 - 5 | 1333-86-4 |
| | | |
| | | |

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 or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures



PVC BRONZE 56

Version Number 1.2 Page 3 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses.

Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention if symptoms occur.

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

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 : No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures



PVC BRONZE 56

Version Number 1.2 Page 4 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO_2 .

: None known.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

Hazardous thermal decomposition products

: May emit Hydrogen Chloride (HCl).

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for firefighters : 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 selfcontained 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 : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note

of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil

or air).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and

place in a designated, labeled waste container. Dispose of via a

licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water

courses, basements or confined areas. Vacuum or sweep up material



PVC BRONZE 56

Version Number 1.2 Revision Date 04/26/2019 Page 5 of 16 Print Date 04/30/2019

and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene

- Put on appropriate personal protective equipment (see Section 8).
 - Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---------------------|---|
| Carbon black | OSHA PEL 1989 (1989-03-01) TWA 3.5 mg/m3 OSHA PEL (1993-06-30) TWA 3.5 mg/m3 NIOSH REL (1994-06-01) TWA 3.5 mg/m3 TWA 0.1 mgPAH/m³ ACGIH TLV (2010-12-06) |
| | TWA 3 mg/m3 Form: Inhalable fraction |
| Diundecyl phthalate | None. |



| | 1 | \sim | | | $\boldsymbol{\wedge}$ | A | 176 | EC |
|------------------|---|--------|---|---|-----------------------|---|-----|-----|
| \boldsymbol{P} | v | | o | ĸ | U | N | IZE | -20 |

Version Number 1.2 Page 6 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | None. |
|---|--|
| Appropriate engineering controls : Environmental exposure controls : | exposure to airborne contaminants. |
| <u>Individual protection measures</u> | |
| Hygiene measures : Eye/face protection : | products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a |
| Skin protection | higher degree of protection: safety glasses with side-shields. |
| Hand protection : | standard should be worn at all times when handling chemical products |
| Body protection : | if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection : | |
| Respiratory protection : | |

Section 9. Physical and chemical properties

Appearance



PVC BRONZE 56

Version Number 1.2 Page 7 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

solid [Pellets.] Physical state Color **BROWN** Odor Not available. **Odor threshold** Not available. Not available. pН **Melting point** Not available. **Boiling point** Not available. Flash point Not available. Not available. **Burning time Burning rate** Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not available.

Lower and upper explosive Lower: Not available. **Upper:** Not available. (flammable) limits

Not available. Vapor pressure Vapor density Not available. Relative density Not available. **Solubility** Not available. Solubility in water Not available. Partition coefficient: n-Not available.

octanol/water

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **SADT** Not available.

Dynamic: Not available. Viscosity Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will

Conditions to avoid Keep away from extreme heat and oxidizing agents.

Incompatible materials Avoid contact with acetal homopolymers and acetyl homopolymers

during processing.

Under normal conditions of storage and use, hazardous decomposition **Hazardous decomposition**

products should not be produced. products

Section 11. Toxicological information



PVC BRONZE 56

Version Number 1.2 Page 8 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure | | |
|---|-----------------------------|-----------------------------|--------------|----------|--|--|
| Carbon black | Carbon black | | | | | |
| | LD50 Oral | Rat | 15,400 mg/kg | = | | |
| Remarks - Inhalation: | No applicable toxi | city data | | | | |
| Remarks - Dermal: | No applicable toxi | city data | | | | |
| Diundecyl phthalate | | | | | | |
| Remarks - Oral: | No applicable toxi | No applicable toxicity data | | | | |
| Remarks - Inhalation: | No applicable toxi | No applicable toxicity data | | | | |
| Remarks - Dermal: | No applicable toxicity data | | | | | |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | | | | | | |
| | LD50 Oral | Rat | 10,000 mg/kg | - | | |
| Remarks - Inhalation: | No applicable toxicity data | | | | | |
| Remarks - Dermal: | No applicable toxi | city data | | | | |

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|----------------------|---------|-------|----------|-------------|
| Diundecyl phthalate | Eyes - Mild irritant | Rabbit | | | - |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | Eyes - Mild irritant | Rabbit | | | - |

Conclusion/Summary

Skin:Mixture.Not fully tested.Eyes:Mixture.Not fully tested.Respiratory:Mixture.Not fully tested.

Sensitization

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.



PVC BRONZE 56

Version Number 1.2 Page 9 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

| Product/ingredient | OSHA | IARC | NTP |
|--------------------|------|------|-----|
| name | | | |
| Carbon black | | 2B | |

Reproductive toxicity

Conclusion/Summary : Mixture. Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture. Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of

Not available.

exposure

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 as well as chronic effects from short and long-term exposure



PVC BRONZE 56

Version Number 1.2 Revision Date 04/26/2019 Page 10 of 16 Print Date 04/30/2019

Short term exposure

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

Conclusion/Summary : Mixture.Not fully tested.

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

Not available.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------|------------------------------|------------------------|----------|
| Carbon black | | | |
| Remarks - Acute - Fish: | No applicable toxicity data | | |
| | Acute EC50 37.563 Mg/l Fresh | Aquatic invertebrates. | 48 h |
| | water | Daphnia | |
| Remarks - Acute - Aquatic | Acute | | |
| invertebrates.: | | | |
| Remarks - Acute - Aquatic | No applicable toxicity data | | |
| plants: | | | |
| Remarks - Chronic - Fish: | No applicable toxicity data | | |
| Remarks - Chronic - | No applicable toxicity data | _ | <u> </u> |



PVC BRONZE 56

Version Number 1.2 Revision Date 04/26/2019 Page 11 of 16 Print Date 04/30/2019

| Aquatic invertebrates.: Diundecyl phthalate | | | | |
|--|-------------------------------|---------------------------------------|------------------------------|-------------------|
| Remarks - Acute - Fish: No applicable toxicity data Acute EC50 12 Mg/l Fresh water Aquatic invertebrates. Daphnia Acute EC50 12 Mg/l Fresh water Daphnia Acute EC50 12 Mg/l Fresh water Daphnia Acute Ac | Aquatic invertebrates.: | | | |
| Remarks - Acute - Aquatic invertebrates. Aquatic invertebrates. Daphnia Remarks - Acute - Aquatic invertebrates. Acute Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates. Aquatic invertebrates. Remarks - Chronic - Aquatic invertebrates. 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates. Remarks - Acute - Aquatic invertebrates. Remarks - Acute - Aquatic invertebrates. Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity da | Diundecyl phthalate | | | |
| Remarks - Acute - Aquatic invertebrates.: Remarks - Chronic - Fish: Remarks - Chronic - Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Chronic NOEC 0.000059 Mg/l Aquatic invertebrates. Daphnia Remarks - Chronic - Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic invertebrates.: Remarks - Chronic - No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data Remarks - Chronic - No applicable toxicity data | Remarks - Acute - Fish: | No applicable toxicity data | | |
| Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: Remarks - Chronic - Fish: Remarks - Chronic - Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Aquatic invertebrates.: Remarks - Chronic - No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Chronic - No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data | | Acute EC50 12 Mg/l Fresh water | Aquatic invertebrates. | 48 h |
| invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Chronic NOEC 0.000059 Mg/l Aquatic invertebrates. Presh water Chronic Remarks - Chronic - Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic invertebrates.: Remarks - Chronic - No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data No applicable toxicity data | | | Daphnia | |
| Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Chronic NOEC 0.000059 Mg/l Aquatic invertebrates. Fresh water Chronic Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - No applicable toxicity data No applicable toxicity data No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data No applicable toxicity data No applicable toxicity data | Remarks - Acute - Aquatic | Acute | | |
| Plants: No applicable toxicity data | invertebrates.: | | | |
| Remarks - Chronic - Fish: No applicable toxicity data Chronic NOEC 0.000059 Mg/l Aquatic invertebrates. Fresh water Chronic Remarks - Chronic - Chronic Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data No applicable toxicity data No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data | Remarks - Acute - Aquatic | No applicable toxicity data | | |
| Chronic NOEC 0.000059 Mg/l Aquatic invertebrates. Daphnia Remarks - Chronic - Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data | plants: | | | |
| Remarks - Chronic - Chronic 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Remarks - Chronic - No applicable toxicity data | Remarks - Chronic - Fish: | No applicable toxicity data | | |
| Remarks - Chronic - Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | | Chronic NOEC 0.000059 Mg/l | Aquatic invertebrates. | 21 d |
| Aquatic invertebrates.: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data | | Fresh water | Daphnia | |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Mo applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: | Remarks - Chronic - | Chronic | | |
| Remarks - Acute - Fish: No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | Aquatic invertebrates.: | | | |
| Remarks - Acute - Aquatic invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | 1,2-Benzenedicarboxylic acid, | di-C8-10-branched alkyl esters, C9-ri | ich | |
| invertebrates.: Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | Remarks - Acute - Fish: | No applicable toxicity data | | |
| Remarks - Acute - Aquatic plants: Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | Remarks - Acute - Aquatic | No applicable toxicity data | | |
| plants: No applicable toxicity data Remarks - Chronic - Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data | invertebrates.: | | | |
| Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | Remarks - Acute - Aquatic | No applicable toxicity data | | |
| Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: | plants: | | | |
| Aquatic invertebrates.: | Remarks - Chronic - Fish: | No applicable toxicity data | | |
| | Remarks - Chronic - | No applicable toxicity data | | |
| PVC BRONZE 56 | Aquatic invertebrates.: | | | |
| | PVC BRONZE 56 | | | |
| Remarks - Acute - Aquatic Chemicals are not readily available as they are bound within the polymer matrix. | Remarks - Acute - Aquatic | Chemicals are not readily available | as they are bound within the | e polymer matrix. |
| invertebrates.: | invertebrates.: | | | |

Conclusion/Summary

: Chemicals are not readily available as they are bound within the

polymer matrix.

Persistence and degradability

Conclusion/Summary

: Chemicals are not readily available as they are bound within the

polymer matrix.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--------------------------------------|--------|------|-----------|
| 1,2-Benzenedicarboxylic acid, di-C8- | 8.8 | 3.00 | low |
| 10-branched alkyl esters, C9-rich | | | |

Mobility in soil



PVC BRONZE 56

Version Number 1.2 Page 12 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

Soil/water partition coefficient

(KOC)

: 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S.DOT 49CFR

: Not regulated for transportation.

Ground/Air/Water
International Air

: Consu

: Consult mode specific transport rules

International Water

IMO/IMDG

ICAO/IATA

: Consult mode specific transport rules

Section 15. Regulatory information

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Listed 1,2-

Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich



PVC BRONZE 56

Version Number 1.2 Revision Date 04/26/2019 Page 13 of 16 Print Date 04/30/2019

United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed

United States - TSCA 5(a)2 - Final significant new use rules: Not

isted

United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed

United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed

United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Vinyl chloride monomer

Rutile, antimony chromium buff

United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

United States - Department of commerce - Precursor chemical:

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

Substances

Clean Air Act Section 602 Class II

Substances

DEA List I Chemicals (Precursor

Chemicals)

DEA List II Chemicals (Essential

Chemicals)

Listed

Not listed

Not listed

Not listed

Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)



PVC BRONZE 56

Version Number 1.2 Page 14 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

not applicable

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

| Name | % | Classification |
|---|--------------|------------------------------|
| Carbon black | >= 3 - <= 5 | CARCINOGENICITY - Category 2 |
| Diundecyl phthalate | >= 5 - <= 10 | EYE IRRITATION - Category 2B |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | >= 5 - <= 10 | EYE IRRITATION - Category 2B |

SARA 313

| | Product name | CAS number | % | |
|-----------------------|---------------------------|------------|---------|--|
| Form R - Reporting | Rutile, antimony chromium | 68186-90-3 | 10 - 25 | |
| requirements | buff | | | |
| Supplier notification | Rutile, antimony chromium | 68186-90-3 | 10 - 25 | |
| | buff | | | |

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

New York

None of the components are listed.

None of the components are listed.

The following components are listed:

Ethene, chloro-, homopolymer

Rutile, antimony chromium buff

Calcium carbonate

Carbon block

Carbon black
Ouartz

Pennsylvania : The following components are listed:

Quartz

Carbon black

Calcium carbonate



PVC BRONZE 56

Version Number 1.2 Page 15 of 16 Revision Date 04/26/2019 Print Date 04/30/2019

Rutile, antimony chromium buff

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz, Carbon black, 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable |
|---|---------------------------|--------------------|
| | | dosage level |
| 1,2-Benzenedicarboxylic acid, di-C8-10- | No. | No. |
| branched alkyl esters, C9-rich | | |
| Carbon black | No. | No. |
| Quartz | No. | No. |

United States inventory (TSCA 8b) : All components are listed or exempted.

Canada inventory : At least one component is not listed in DSL but all such components

are listed in NDSL.

International regulations

Inventory list

Australia : All components are listed or exempted.

Canada : At least one component is not listed in DSL but all such components

are listed in NDSL.

China : Not determined.

Europe inventory : All components are listed or exempted.

Japan: Not determined.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: Not determined.

Taiwan : All components are listed or exempted.

Turkey : Not determined.

United States : All components are listed or exempted.

Section 16. Other information

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

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

15/16



PVC BRONZE 56

Version Number 1.2 Revision Date 04/26/2019

Page 16 of 16 Print Date 04/30/2019

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.

History

Date of printing 04/30/2019 Date of issue/Date of revision 04/26/2019 Date of previous issue 11/20/2018

Version 1.2

ATE = Acute Toxicity Estimate Key to abbreviations

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)

UN = United Nations

References Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.