AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018

Page 1 of 16 Print Date 11/26/2018

SAFETY DATA SHEET

AMS NFL GRAY (HOUSTON)

| Section 1. Identification | | |
|---|------------|--|
| GHS product identifier Chemical name | : | AMS NFL GRAY (HOUSTON) Mixture |
| CAS number Other means of identification Product type | :: | Mixture CC10001655 solid |
| <u>Relevant identified uses of the subs</u> Product use | tance : | e or mixture and uses advised against 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. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. 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 | | |
| Signal word | : | No signal word. |
| | | 1/16 |

AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 2 of 16 Print Date 11/26/2018

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 | : | Mixture |
|-------------------------------|---|------------|
| Chemical name | : | Mixture |
| Other means of identification | : | CC10001655 |

CAS number/other identifiers

| Ingredient name | % | CAS number |
|---|---------|----------------|
| Titanium dioxide | 10 - 25 | 13463-67-7 |
| | | |
| Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4- | 1 - 3 | Not available. |
| diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6- | | |
| hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] | | |
| Carbon black | 0 - 0.3 | 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

Description of necessary first aid measures



AMS NFL GRAY (HOUSTON)

| Version Number 1.7 | Page 3 of 16 |
|--------------------------|-----------------------|
| Revision Date 09/13/2018 | Print Date 11/26/2018 |

| 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 Inhalation Skin contact Ingestion Over-exposure signs/symptoms | ::::::::::::::::::::::::::::::::::::::: | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Eye contact | : | No specific data. |
| Inhalation Skin contact | : | No specific data. No specific data. |
| Ingestion | : | No specific data. |
| Indication of immediate medical atte | <u>entio</u> | n 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

Extinguishing media



AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 4 of 16 Print Date 11/26/2018

| 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 | : | Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides |
| Special protective actions for fire- fighters | : | 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 For emergency responders | : | 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. 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 contain | nent a | nd 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 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. |
| | | |



AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 5 of 16 Print Date 11/26/2018

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/m ³ ACGIH TLV (2010-12-06) TWA 3 mg/m3 Form: Inhalable fraction |
| Poly[[6-[(1,1,3,3- tetramethylbutyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetramethyl-4- piperidinyl)imino]-1,6- hexanediyl[(2,2,6,6 | None. |

<u>PolyOne</u>

AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018

| Titanium dioxide | | OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3 |
|---|---|---|
| Appropriate engineering controls Environmental exposure controls | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measures | | |
| Hygiene measures Eye/face protection | : | Wash hands, forearms and face thoroughly after handling chemical 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 higher degree of protection: safety glasses with side-shields. |
| Skin protection | | |
| Hand protection Body protection | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products 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 |
| Other skin protection | : | approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

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AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 7 of 16 Print Date 11/26/2018

Section 9. Physical and chemical properties

Appearance

| Physical state | : | solid [Pellets.] |
|--|---|---------------------------|
| Color | : | GREY |
| Odor | : | Faint odor. |
| Odor threshold | : | Not available. |
| рН | : | Not available. |
| Melting point | : | Not available. |
| Boiling point | : | Not available. |
| Flash point | : | Not available. |
| Burning time | : | Not available. |
| Burning rate | : | Not available. |
| Evaporation rate | : | Not available. |
| Flammability (solid, gas) | : | Not available. |
| Lower and upper explosive | : | Lower: Not available. |
| (flammable) limits | | Upper: Not available. |
| Vapor pressure | : | Not available. |
| Vapor density | : | Not available. |
| Relative density | : | Not available. |
| Solubility | : | Not available. |
| Solubility in water | : | insoluble in water. |
| Partition coefficient: n- octanol/water | : | Not available. |
| Auto-ignition temperature | : | Not available. |
| Decomposition temperature | : | Not available. |
| SADT | : | Not available. |
| Viscosity | : | Dynamic: Not available. |
| | | 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 not occur. |
| Conditions to avoid Incompatible materials | : | Keep away from extreme heat and oxidizing agents. Keep away from strong acids. Oxidizer. |

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AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018

Page 8 of 16 Print Date 11/26/2018

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

Section 11. Toxicological information

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 | | | | |
| | LD50 Oral | Rat | 15,400 mg/kg | - |
| Remarks - Inhalation: | No applicable toxic | city data | | |
| Remarks - Dermal: | No applicable toxi | city data | | |
| Poly[[6-[(1,1,3,3-tetramethylb | | | 6-tetramethyl-4-piperic | linyl)imino]-1,6- |
| hexanediyl[(2,2,6,6-tetramethy | l-4-piperidinyl)imin | o]] | | |
| | LD50 Oral | Rat | 9,910 mg/kg | - |
| | LC50 Inhalation | Rat | 0.112 Mg/l | 4 h |
| Remarks - Dermal: | No applicable toxicity data | | | |
| Titanium dioxide | | | | |
| Remarks - Oral: | No applicable toxicity data | | | |
| | LC50 Inhalation | Rat - Male | 6.82 Mg/l | 4 h |
| | LD50 Dermal | Rabbit | > 5,000 mg/kg | - |
| Conclusion/Summary | • Mixtu | re.Not fully tested. | | - |

Conclusion/Summary

Mixture.Not fully tested.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------------|-------------|-----------------|-----------|----------|-------------|
| Poly[[6-[(1,1,3,3- | Skin - Mild | Rabbit | | | - |
| tetramethylbutyl)amino]- | irritant | | | | |
| 1,3,5-triazine-2,4- | | | | | |
| diyl][(2,2,6,6-tetramethyl-4- | | | | | |
| piperidinyl)imino]-1,6- | | | | | |
| hexanediyl[(2,2,6,6- | | | | | |
| tetramethyl-4- | | | | | |
| piperidinyl)imino]] | | | | | |
| Titanium dioxide | Skin - Mild | Human | | 72 hrs | - |
| | irritant | | | | |
| Conclusion/Summary | | | | | |
| Skin | : M | ixture.Not full | y tested. | | |
| Eyes | : M | ixture.Not full | y tested. | | |

<u>PolyOne</u>

AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 9 of 16 Print Date 11/26/2018

| Respiratory | : 1 | Mixture.Not fully | tested. | |
|---|----------------------|--|----------------------------------|--|
| <u>Sensitization</u> | | | | |
| Conclusion/Summary Skin Respiratory | | Mixture.Not fully Mixture.Not fully | | |
| Mutagenicity | | | | |
| Conclusion/Summary | : 1 | Mixture.Not fully | tested. | |
| Carcinogenicity | | | | |
| Conclusion/Summary Classification | : 1 | Mixture.Not fully | tested. | |
| Product/ingredient name | OSHA | IARC | NTP | |
| Carbon black | | 2B | | |
| Titanium dioxide | | 2B | | |
| <u>Reproductive toxicity</u> Conclusion/Summary | : 1 | Mixture.Not fully | tested | |
| <u>Teratogenicity</u> | • 1 | virxture.i vot runy | costed. | |
| Conclusion/Summary | : 1 | Mixture.Not fully | tested. | |
| Specific target organ toxicity Not available. | <u>(single expos</u> | <u>ure)</u> | | |
| <u>Specific target organ toxicity</u> Not available. | r (repeated ex | posure) | | |
| Aspiration hazard Not available. | | | | |
| Information on likely routes of exposure | of : 1 | Not available. | | |
| Potential acute health effects | | | | |
| Eye contact | | | ant effects or critical hazards. | |
| Inhalation | | | ant effects or critical hazards. | |
| Skin contact | : 1 | | ant effects or critical hazards. | |
| | | 9/16 | | |

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AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018

Page 10 of 16 Print Date 11/26/2018

Ingestion : Symptoms related to the physical, chemical and toxicological characteristics Eve contact •

| Eye contact | : No s | specific data. |
|--------------|--------|----------------|
| Inhalation | : No s | specific data. |
| Skin contact | : No s | specific data. |
| Ingestion | : No s | specific data. |

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

No known significant effects or critical hazards.

Short term exposure

| Potential immediate effects Potential delayed effects | : | Not available. Not available. |
|--|---|---|
| Long term exposure | | |
| Potential immediate effects Potential delayed effects | : | Not available. 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 |
|-------------------------|--------|---------|----------|
| | 10/16 | | |



AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 11 of 16 Print Date 11/26/2018

| 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 | | | | |
| Aquatic invertebrates.: | | | | | |
| Poly[[6-[(1,1,3,3-tetramethylb | utyl)amino]-1,3,5-triazine-2,4-diyl][(2 | ,2,6,6-tetramethyl-4-piperi | dinyl)imino]-1,6- | | |
| hexanediyl[(2,2,6,6-tetramethy | l-4-piperidinyl)imino]] | | | | |
| Remarks - Acute - Fish: | No applicable toxicity data | | | | |
| Remarks - Acute - Aquatic | No applicable toxicity data | | | | |
| invertebrates.: | | | | | |
| Remarks - Acute - Aquatic | No applicable toxicity data | | | | |
| plants: | | | | | |
| Remarks - Chronic - Fish: | No applicable toxicity data | | | | |
| Remarks - Chronic - | No applicable toxicity data | | | | |
| Aquatic invertebrates.: | | | | | |
| Titanium dioxide | | | | | |
| | Acute LC50 > 1,000 Mg/l Marine | Fish - Fish | 96 h | | |
| | water | | | | |
| Remarks - Acute - Fish: | Acute | | | | |
| | Acute LC50 3 Mg/l Fresh water | Aquatic invertebrates. | 48 h | | |
| | | Crustaceans | | | |
| Remarks - Acute - Aquatic | Acute | | | | |
| invertebrates.: | | | - 1 | | |
| | Acute LC50 6.5 Mg/l Fresh water | Aquatic invertebrates. | 48 h | | |
| | | 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 | | | | |
| Aquatic invertebrates.: | | | | | |
| AMS NFL GRAY (HOUSTON | | | <u> </u> | | |
| | Chemicals are not readily available a | as they are bound within the | e polymer matrix. | | |
| Remarks - Acute - Aquatic | | | | | |
| Remarks - Acute - Aquatic invertebrates.: Conclusion/Summary | | ly available as they are bou | | | |



AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 12 of 16 Print Date 11/26/2018

| Persistence and degradability | | |
|--|---|--|
| Conclusion/Summary | : | Chemicals are not readily available as they are bound within the polymer matrix. |
| Conclusion/Summary | : | Chemicals are not readily available as they are bound within the polymer matrix. |
| Bioaccumulative potential Not available. | | |
| Mobility in soil | | |
| 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 Ground/Air/Water : Not regulated for transportation.

12/16

he

AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018

Page 13 of 16 Print Date 11/26/2018

International Air : Not classified as dangerous goods under transport regulations. ICAO/IATA International Water : Not classified as dangerous goods under transport regulations. IMO/IMDG

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: Not listed 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) - Proposed test rules: Not listed United States - TSCA 5(a) - Proposed significant new use rules: Not listed United States - TSCA 5(a) - 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 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) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(d) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(d) - Health and safety studies: 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 Rutile, antimony chromium buff 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 - 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) | : | Listed |

)n<u>e</u>.

AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 14 of 16 Print Date 11/26/2018

| Hazardous Air Pollutants (HAPs) | | |
|------------------------------------|---|------------|
| Clean Air Act Section 602 Class I | : | Not listed |
| Substances | | |
| Clean Air Act Section 602 Class II | : | Not listed |
| Substances | | |
| DEA List I Chemicals (Precursor | : | Not listed |
| Chemicals) | | |
| DEA List II Chemicals (Essential | : | Not listed |
| Chemicals) | | |

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

| Name | % | Classification |
|--|---------|----------------|
| Carbon black | 0 - 0.3 | СН |
| Poly[[6-[(1,1,3,3- tetramethylbutyl)amino]-1,3,5- triazine-2,4-diyl][(2,2,6,6- tetramethyl-4-piperidinyl)imino]- 1,6-hexanediyl[(2,2,6,6- tetramethyl-4-piperidinyl)imino]] | 1 - 3 | АН |
| Titanium dioxide | 10 - 25 | СН |

SARA 313

Not applicable.

| State regulations | |
|-------------------|--|
| Massachusetts | : None of the components are listed. |
| New York | : None of the components are listed. |
| New Jersey | : The following components are listed: Carbon black Talc Titanium dioxide |
| Pennsylvania | : The following components are listed: Titanium dioxide |

Talc

AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 15 of 16 Print Date 11/26/2018

Carbon black

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

| United States inventory (TSCA 8b) | : | All components are listed or exempted. |
|-----------------------------------|---|--|
| Canada inventory | : | Not determined. |
| International regulations | | |
| Inventory list | | |
| Australia | : | Not determined. |
| Canada | : | Not determined. |
| China | : | Not determined. |
| Europe inventory | : | Not determined. |
| Japan | : | Not determined. |
| New Zealand | : | Not determined. |
| Philippines | : | Not determined. |
| Republic of Korea | : | Not determined. |
| Taiwan | : | Not determined. |
| 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 |
| | | |

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. <u>History</u>

Date of printing : 11/26/2018



AMS NFL GRAY (HOUSTON)

Version Number 1.7 Revision Date 09/13/2018 Page 16 of 16 Print Date 11/26/2018

| Date of issue/Date of revision Date of previous issue Version | : | 09/13/2018 05/25/2018 1.7 |
|---|---|---|
| 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 = Internediate 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. |

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