CHARLOTTE PIPE AND FOUNDRY COMPANY

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

COMMON NAME:	ABS Plus Pipe
CHEMICAL NAME:	Not Applicable. Formulation, see Section 3.
FORMULA:	Mixture
PRODUCT CAS NO.:	Mixture, see Section 3.
Recommended Use:	Drain, waste and vent pipe
SUPPLIER:	Charlotte Pipe and Foundry Company (Plastics Division)
ADDRESS:	4210 Old Charlotte Highway
CITY, STATE, ZIP:	Monroe, NC 28110
PHONE:	+1-704-372-3650 **EMERGENCY PHONE:** 1-800-424-9300 (Chemtrec)

2. HAZARDS IDENTIFICATION

GHS Status	This material is hazardous in accordance with the hazard communication standard, 29 CFR 1910.1200. This product has not been tested as a whole. Hazards described on this SDS are based on the component ingredients.
Classification of the substance or mixture	Toxic to Reproduction – Category 1 Carcinogenicity – Category 2 Specific Target Organ Toxicity (lungs, thymus) – Category 2 Germ Cell Mutagenicity – Category 2 Skin Sensitization – Category 1 Skin Irritation – Category 2
GHS label pictogram	Health hazard, exclamation point.

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Signal word	Danger
Hazard statements	May damage fertility or the unborn child. May cause damage to organs (lungs, thymus) through prolonged or repeated exposure. May cause an allergic skin reaction Suspected of causing genetic defects (inhalation) Causes skin irritation. Suspected of causing cancer if inhaled.
Precautionary statements	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes. Wear protective breathing gear, such as an N95 or P95 respirator. Wear protective gloves. If pipe is heated, wear heat resistant gloves. Contaminated clothing must not be allowed out of the workplace.
Response	If exposed or concerned: Get medical advice/attention. If on skin: wash with plenty of water. Wash thoroughly with plenty of water after handling. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment: wash with mild soap and water. Take off contaminated clothing and wash it before reuse.
Storage	Store locked up.
Disposal	Dispose of in accordance with local regulations.
Hazards not otherwise classified	None known.
Relevant routes of exposure	Inhalation, skin. Exposure via these routes are anticipated primarily via fumes if the product is melted, particulates if the product is cut.
Inhalation	Melted product is flammable and produces intense heat and dense smoke during burning. Irritating gases and fumes may be given off during burning or thermal decomposition. Inhalation of airborne unbound particles of respirable size may cause cancer.
Skin contact	May cause allergic reaction.
Eye contact	No data available.
Ingestion	No data available.

3. Composition / Information on Ingredients

INGREDIENT	CAS Number	% WEIGHT
Polyvinyl Chloride	9002-86-2	65 – 85
Acrylonitrile/Butadiene/Styrene Terpolymer	9003-56-9	14 – 40
Calcium Carbonate	471-34-1	5 – 10
Corn Oil	8001-30-7	0.5 – 1.5
Carbon Black	1333-86-4	0.1 – 1
Titanium Dioxide	13463-67-7	0.5 – 1.5
Styrene	100-42-5	0.1 - 1
Silica, Crystalline	14808-60-7	0.1 – 1
Proprietary Additives	NA	5 – 10

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4. FIRST AID MEASURES

EYE CONTACT: Hazards to eyes can occur due to flying particles when pipe is cut or drilled, and fumes when pipe is heated. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.
SKIN CONTACT: Hazards to skin can be caused by sharp edges that can cut into skin when pipe is cut or drilled. Dust could irritate the skin or cause allergic reaction. Wash with mild soap and water. Remove contaminated clothing and shoes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes before reuse.
INHALATION: If vapors from excessive heating, burning or decomposition products are inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing, such as collar, tie, belt, or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance.
INGESTION: Wash out mouth with water. Remove dentures, if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing, such as collar, tie, belt, or waistband.

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under surveillance for 48 hours

Specific treatments: None known

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 388-400°C (730-752°F) Decomposition products may be combustible.

FLAMMABLE LIMITS: LEL: No data UEL: No data

EXTINGUISHING MEDIA: Use media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARDS: Thermal decomposition may produce carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds, and metal oxide/oxides.

PROTECTIVE MEASURES FOR FIRE FIGHTERS: Firefighters must wear a NIOSH-approved, full-face piece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to protect against thermal decomposition products.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS: If there is a fire, promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY OVERVIEW

Toxic and irritating gases and fumes may be given off during burning or thermal decomposition. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Personal precautions, protective equipment, and emergency measures

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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with decomposition products or fumes from burning or excessive heating, take note of information in Section 8 on suitable and unsuitable materials. See also 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 cleanup

Small spill	Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. See Section 1 for emergency contact information.
Large spill	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, waterways, basements, and confined areas. Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. See Section 1 for emergency contact information.

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities	Store in a dry place away from direct sunlight, heat, and incompatible materials. Avoid intense heat and flames.

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not handle until all safety precautions have been read and understood. Do not get particles, vapors or fumes in eyes, on skin, or on clothing. Do not ingest. If during normal use, the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.
Advice on general occupational hygiene	Employees must wash hands and face before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below recommended and statutory limits.

RESPIRATORY PROTECTION: Cutting or sanding this product can generate dust. Used a properly fitted particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the respirator. A NIOSH-approved N95 single use or P95 multiple use respirator will protect the employee from at least 95% of airborne particles. Follow the respirator manufacturer's instructions for proper use. If adhesives or other substances are used with this product, refer to safety data sheets for those products.

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INGREDIENT	CAS Number	PEL-OSHA	TLV-ACGIH	NIOSH REL
Polyvinyl Chloride	9002-86-2	None established Particulates not otherwise classified: 15 mg/m^3	1 mg/m^3 (respirable fraction) Particulates not otherwise	None established
Acrylonitrile/Butadiene/ Styrene Terpolymer	9003-56-9			
Calcium Carbonate	471-34-1	15 mg/m^3, total dust 5 mg/m^3, respirable dust		15 mg/m^3, total dust 5 mg/m^3, respirable dust
Corn Oil	8001-30-7	PNOR: 15 mg/m^3, total dust 5 mg/m^3, respirable dust	10 mg/m^3 (8- hour TWA)	Vegetable oil mist: 10 mg/m^3 (total TWA)
Carbon Black	1333-86-4	3.5 mg/m^3 (TWA)	3.0 mg/m^3 (TWA)	3.5 mg/m^3 (TWA) when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.
Titanium Dioxide	13463-67-7	15 mg/m^3, total dust	10 mg/m^3 TWA	2.4 mg/m^3 (fine) 0.3 mg/m^3 (ultrafine, potential occupational carcinogen)
Styrene	100-42-5	100 ppm (TWA) 200 ppm (ceiling) 500 ppm (Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift, 5 min in any 3-hr)	10 ppm (STEL) 20 ppm	100 ppm (STEL) 150 ppm
Silica, Crystalline	14808-60-7	0.05 mg/m^3, respirable dust	0.025 mg/m^3 (respirable) for α-quartz and cristobalite	0.05 mg/m^3, (respirable dust, potential occupational carcinogen)

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid. Black and Grey.
ODOR:	None
ODOR THRESHOLD:	Not available
BOILING POINT:	Not available
FLASH POINT:	736°F, 391°C
FLAMMABILITY:	Melted product is flammable.
AUTOIGNITION TEMPERATURE:	849°F, 454°C
DECOMPOSITION TEMPERATURE:	Nott available
LOWER/UPPER EXPLOSION LIMITS:	Not available
VAPOR PRESSURE:	Not available
LIQUID DENSITY:	Not available
SPECIFIC GRAVITY:	Approximately 1.3 – 1.5
MELTING POINT:	Not available
pH:	Not available
SOLUBILITY:	Insoluble
% VOLATILE:	None at ambient temperature
VISCOSITY:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures and pressures.
Reactivity:	Stable at normal temperatures and pressures.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.
Incompatible materials/conditions:	Consult the Charlotte Pipe and Foundry chemical resistance guide.
Hazardous decomposition products:	Hydrogen chloride, carbon oxides, small amounts of benzene and aromatic and aliphatic hydrocarbons, phosgene.
Hazardous polymerization:	Not available.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

No toxicological data is available for the finished product.

SENSITIZATION: Dust can cause allergic reaction.

MUTAGENICITY: No data available.

DEVELOPMENTAL: Reproductive hazard, Category 1

Fertility: No data available.

CARCINOGENICITY: This product contains Carbon Black, Titanium Dioxide, and Styrene, which are classified by the International Agency for Research on Cancer as 2B: possibly carcinogenic to humans. Crystalline silica is present at a concentration of up to 0.08%. Crystalline silica in the form of quartz or cristobalite dust is classified by IARC as a Category 1 carcinogen (carcinogenic to humans). Crystalline silica (respirable size) is listed as known to be a human carcinogen on the National Toxicology Program Report on Carcinogens and OSHA Subpart Z.

REPRODUCTIVE TOXICITY: Category 1
TERATOGENICITY: Not available
SPECIFIC TARGET ORGANS – SINGLE EXPOSURE: Lungs, thymus
SPECIFIC TARGET ORGANS – REPEATED EXPOSURE: Lungs, thymus
ASPIRATION HAZARD: Not available

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:

Potential acute health effects

Eye contact	No known significant effects or critical hazards. Dust can cause eye irritation.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	Skin irritant and sensitizer. Heated product can cause skin burns. Sharp edges can cut skin.
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact	No known significant effects or critical hazards. Dust can cause eye irritation.
Inhalation	Inhalation of airborne unbound particles of respirable size may cause cancer.
Skin contact	Adverse symptoms may include irritation and sensitization.
Ingestion	No data available

Immediate, delayed and chronic effects from short term exposure

Short term exposure

Potential immediate effects	No data available.
Potential delayed effects	No data available.

Long term exposure

Potential immediate effects	No data available.
Potential delayed effects	No data available.

Potential chronic effects

General	No data available.
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.

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12. ECOLOGICAL INFORMATION

Numerical measures of toxicity
No data available.

Persistence and degradability
Does not biodegrade over time.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Other adverse effects: No known significant or critical hazards.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste should not be disposed of 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 must be disposed of in a safe way.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Not Regulated
HAZARD CLASS:	Not Regulated
IDENTIFICATION NUMBER:	Not Regulated
SHIPPING LABEL:	Not Regulated
PACKING GROUP:	Not Regulated

15. REGULATORY INFORMATION

United States

TSCA 8(b):
All ingredients are listed on the U.S. Toxic Substances Control Act inventory.

This product can expose you to chemicals including carbon black, titanium dioxide, crystalline silica, and styrene which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

Date of Preparation: 25 August 2020

Key to Acronyms:

CAS:	Chemical Abstracts Service
CFR:	Code of Federal Regulations

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HEPA	High-Efficiency Particulate Air (filter)
IARC:	International Agency for Research on Cancer
LD50	Lethal dose to 50% of exposed laboratory animals
LC50	Lethal concentration to 50% of exposed laboratory animals
LEL:	Lower Explosive Limit
mg/l	Milligrams per liter
mg/ m^3	Milligrams per cubic meter
NIOSH:	National Institute for Occupational Safety and Health (US)
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration (US)
PEL:	Permissible Exposure Limit
PNOR	Particulates not otherwise regulated
ppm	Parts per million
TSCA	Toxic Substances Control Act
TLV:	Threshold Limit Value – American Conference of Governmental Industrial Hygienists (ACGIH)
TWA:	Time Weighted Average
UEL:	Upper Explosive Limit
ug/ m^3	Micrograms per cubic meter

DISCLAIMER

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