



SAFETY DATA SHEET

PRODUCT NAME: Manhole Step

ISSUE DATE: 08/04/2020

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME: Manhole Step
SYNONYMS: 004-500, 004-501 (all grades), 004-504, 004-505, 004-506 (all grades), 004-507 (all grades), 004-508, 004-509, 004-510 (all grades), 004-511 (all grades), 004-512 (all grades), 004-515, 004-516 (all grades), 004-517, 004-519, 004-521, 004-523 (all grades), 004-524, 004-528 (all grades), 004-529 (all grades), 004-530 (all grades), PFS-1 (all grades), PFS-2 (all grades), PS1 (all grades), PS2 (all grades), PS3 (all grades), PS4-B, PS5-PF, PS12-PF-DF.

RECOMMENDED USE: Insertion into concrete to form rung-like steps for descending into concrete structures.

MANUFACTURER: M.A. Industries, Inc.
303 Dividend Dr.
Peachtree City, GA 30269
United States
www.maind.com
Telephone: 1-770-487-7761
Fax: 1-770-631-4679

EMERGENCY TELEPHONE: 1-770-487-7761

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: None

LABEL ELEMENTS

SIGNAL WORD: None
HAZARD STATEMENTS: None
PICTOGRAMS: None
PRECAUTIONARY STATEMENTS: None

HAZARDS NOT OTHERWISE CLASSIFIED: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered an "article" per Title 29 of U.S. Code of Federal Regulations Part 1910.1200. A safety data sheet is not required but provided as a service to the user.

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

EYE CONTACT: Health injuries not expected. Not a probable route of exposure.

SKIN CONTACT

Cool Material: Health injuries not expected. Contact is essentially nonirritating to skin. If irritation does occur, wash exposed area with soap and water. Get medical advice if irritation persists.

Hot Material: If burned by contact with hot material, immediately flush skin with large amounts of cold water, submerging in cold water if possible to dissipate the heat. Do not attempt to detach polymer adhering to the skin. Do not attempt to remove clothing attached with molten material. Seek immediate medical attention for thermal burns.

INHALATION: Health injuries not expected. Not a probable route of exposure.

INGESTION: Health injuries not expected. Not a probable route of exposure.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: None.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water fog, dry chemical powder, carbon dioxide (CO₂) or foam, sand or earth as appropriate for material in surrounding fire. Carbon dioxide may displace oxygen; use caution when applying CO₂ in a confined space.

UNSUITABLE EXTINGUISHING MEDIA: Water jet. Avoid using direct streams of water on molten burning material to avoid scattering the material and spreading fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Possibly combustible at high temperature. Material melts in proximity to fire. Melted material may be sticky, and may melt through personal protective equipment and footwear. Melted material that has cooled may result in slippery floors and stairs. Static charges on solid or melted materials may ignite combustible atmospheres. Airborne dusts of this material in an enclosed space and the presence of an ignition source may pose an explosion hazard. Consult NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids," for safe handling procedures. As with any fire, wear NIOSH/MSHA approve positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, acetaldehyde, acetone, acetic acid, formic acid, and other organic vapors.

ADVICE FOR FIREFIGHTERS

FIRE FIGHTING PROCEDURES: In the case of fire, promptly isolate the scene by removing all persons from the vicinity of the incident. Take no action involving any personal risk without suitable training. Remove containers from fire area if possible without risk. Use water spray to keep fire-exposed containers cool as long as materials in containers are not burning.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: 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: No special precautions required. Spilled material could constitute a trip hazard.

ENVIRONMENTAL PRECAUTIONS: No special environmental precautions required. Avoid dispersal of spilled material in runoff and contact with soil, waterways, drains and sewers.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Pick up spill for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

GENERAL HANDLING: Wear appropriate personal protective equipment. After handling, always wash hands thoroughly with soap and water. Remove contaminated clothing and protective equipment before entering eating areas.

OTHER PRECAUTIONS: Avoid elevated temperatures for prolonged periods of time. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent small spills and leakage to avoid slip hazard. **DO NOT** handle, store or open near an open flame, sources of heat or sources of ignition.

CONDITIONS FOR SAFE STORAGE: Store in accordance with local regulations. Store in a segregated and approved area, 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. Eliminate all ignition sources. Keep separate from oxidizing materials. Store only in approved containers. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. In most cases, best practice is to stack pallets no more than two (2) high. However, facilities responsible for storing the material should perform a site specific risk assessment to determine whether pallets can be stacked safely.

LOADING/UNLOADING TEMPERATURE & PRESSURE: Ambient

STORAGE TEMPERATURE & PRESSURE: Ambient

TRANSPORT TEMPERATURE & PRESSURE: Ambient

STATIC ACCUMULATOR: Yes

SUITABLE CONTAINERS/PACKAGING: Bulk Containers; Bags; Boxes; Drums

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: No data available for product in finished form. Particulates not otherwise classified (PNOC): OSHA PEL 15 mg/m³; ACGIH TLV 10 mg/m³.

ENGINEERING CONTROLS: None required under normal operating conditions. Provide adequate room ventilation to maintain airborne levels below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYES AND FACE: Safety glasses with side shields or chemical goggles to prevent eye contact. If operating conditions cause high dust concentrations to be produced, use dust goggles. Have eye-washing facilities readily available where eye contact can occur.

SKIN: None required under normal operating conditions. When handling hot material, wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of molten product.

RESPIRATORY: None required under normal operating conditions. In case of insufficient ventilation, wear suitable respiratory equipment in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

HYGIENE MEASURES: 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. Do not consume or store food in the work area. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

APPEARANCE: Black, white, orange, yellow, or fluorescent green plastic step (steel reinforced)

ODOR: Mild

ODOR THRESHOLD: No data available

SOLUBILITY IN WATER: Insoluble (cold or hot)

PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available

pH: No data available

SPECIFIC GRAVITY (H₂O = 1): 4.7 – 6.0

VISCOSITY: No data available

MELTING/FREEZING POINT: >176°C (>349°F)

BOILING POINT: No data available

PERCENT VOLATILE: No data available

VOLATILE ORGANIC COMPOUNDS (VOC): No data available

FLASH POINT: N/A

FLAMMABILITY: May ignite

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS IN AIR: No data available

EVAPORATION RATE: N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (AIR = 1): N/A

AUTOIGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable under normal conditions of storage or use. No specific test data related to reactivity available for this product or its ingredients.

CHEMICAL STABILITY: The product is stable under normal conditions of storage and use.

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous reactions are not anticipated, and hazardous polymerization will not occur. Avoid strong oxidizing agents. Avoid processing material over 329°C (625°F).

CONDITIONS TO AVOID: May react with strong oxidizing agents. Organic solvents, ether, gasoline, lubricating oils, chlorinated hydrocarbons and aromatic hydrocarbons may react with and degrade the product. Avoid exposure to open flame or exceeding recommended processing conditions. If heated to more than 329°C (625°F), the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust-air mixtures when handling and avoid all possible sources of ignition (spark or flame). To avoid fire or explosion, avoid static charge buildup by dissipating static electricity during transfer by grounding and bonding containers and equipment before transferring material. Avoid contact with incompatible materials.

INCOMPATIBLE MATERIALS: Reactive or incompatible with the following materials: Oxidizing materials and agents or amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures. Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene, waxes, and oxygenated hydrocarbons. At extrusion temperatures >350°F (>177°C) degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors, the inhalation of which may be hazardous.

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Process dust.

EYES: Unlikely to be harmful. Dust may mechanically irritate the eyes, resulting in redness or watering.

SKIN: Unlikely to be harmful.

INGESTION: Unlikely to be harmful.

INHALATION: Unlikely to be harmful. Inhalation of dust may cause respiratory tract irritation and/or coughing.

ACUTE TOXICITY: No data available

SKIN CORROSION/IRRITATION: Content is essentially nonirritating to skin.

SERIOUS EYE DAMAGE/IRRITATION: No data available

RESPIRATORY OR SKIN SENSITIZATION: No data available

CHRONIC TOXICITY: No data available

CARCINOGENICITY: No data available

CARCINOGENIC STATUS: Neither this product, nor its components at concentrations greater than 0.1%, are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

REPRODUCTIVE TOXICITY: No data available

MUTAGENICITY: No data available

SPECIFIC TARGET ORGAN TOXICITY (STOT): No data available

FURTHER INFORMATION: This product has no known adverse effect on human health.

SECTION 12: ECOLOGICAL INFORMATION

No data available for product in finished form.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: No special disposal methods necessary. Reduce non-hazardous wastes by 1) clean and reuse where possible; 2) recover and resale through recycled metal or scrap brokers; 3) incinerate with heat recovery; or 4) landfill. Disposal of this product should be in compliance with federal, state and local regulations at all times. DO NOT ATTEMPT TO DISPOSE OF BY UNCONTROLLED INCINERATION. Open burning of plastics at landfills is not acceptable.

RCRA HAZARD CLASS: This product as supplied is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery act (RCRA, 40 CFR 261D). Conditions of use may render the spent product a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER: Not regulated

UN PROPER SHIPPING NAME: Not regulated

TRANSPORT HAZARD CLASS: No data available

PACKING GROUP: No data available

ENVIRONMENTAL HAZARDS: No data available

TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE): No data available

SPECIAL PRECAUTIONS FOR USE: None specified

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL AND STATE REGULATIONS/LEGISLATION

TOXIC SUBSTANCES CONTROL ACT: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

OSHA HAZARD COMMUNICATION STANDARD: The components of this product are not classified as hazardous in accordance with OSHA 29 CFR 1910.1200, if used for its intended purposes.

CAA (CLEAN AIR ACT) – 1990 HAZARDOUS AIR POLLUTANTS: Components not listed.

CERCLA – HAZARDOUS SUBSTANCES AND THEIR REPORTABLE QUANTITIES: Components not listed.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:

Section 302: This product contains no chemicals or none in reportable amounts that require reporting under this statute.

Section 313: This product contains no chemicals or none in reportable amounts that require reporting under this statute.

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986): This product does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

SECTION 16: OTHER INFORMATION

REVISION: 1

ISSUE DATE: 08/04/2020

SUPERCEDES: R0

DISCLAIMER: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and M. A. Industries, Inc. assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer.