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Safety Data Sheet

REVISION DATE: 10/23/2015

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: PuraClean
USE: Improves HVAC Filter Performance
DESCRIPTION: HVAC air filter spray

MANUFACTURER: Mainstream Engineering Corporation
200 Yellow Place
Rockledge, Florida 32955

INFORMATION TELEPHONE: 321-631-3550

EMERGENCY TELEPHONE: 800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910

(OSHA HCS): Eye Irritation (Category 2B)

HAZARD STATEMENT(S):

H320 Causes eye irritation.

PICTOGRAM(S): None

SIGNAL WORD: Warning

PRECAUTIONARY STATEMENT(S):

P264 Wash hands thoroughly after handling.

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313

If eye irritation persists seek medical attention.

SECTION 3 - PRODUCT COMPOSITION INFORMATION

COMPONENT	CAS #	AMOUNT
Water	7732-18-5	85%
Natural Seed Oil	*	15%

* TRADE SECRET - PROPRIETARY FORMULA. Specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200.

SECTION 4 - EMERGENCY & FIRST-AID PROCEDURES

EYE: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately, preferably from an ophthalmologist.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. Obtain medical attention if irritation persists. Launder clothing before reuse.

INGESTION: If patient is fully conscious, give two glasses of fresh water. Do not induce vomiting. Obtain medical attention.

INHALATION: If symptoms develop, remove victim to uncontaminated area.

NOTICE TO PHYSICIANS: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 - FIRE-FIGHTING MEASURES

This material is an *aqueous* mixture and is considered non flammable in its normal state. After the water has evaporated, the remaining product residue will burn.

EXTINGUISHING MEDIA: Water fog or fine spray can also be used; do not use direct water stream-may spread fire. Carbon dioxide; dry chemical media. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may also function but will be less effective.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Violent steam generation or eruption may occur upon application of water-based extinguishing agents.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Use personal protective equipment as outlined for normal handling of this material. In the event of leakage, flooring may become slippery.

ENVIRONMENTAL PRECAUTIONS: This material is not expected to pose a significant environmental hazard;



however, waste materials should not be allowed to enter sewers or natural waterways.

MATERIALS FOR CONTAINMENT AND CLEAN-UP: Use a suitable absorbent to contain spills of this material. Transfer collected liquid and solid waste material to suitable containers for proper recovery or disposal.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

- Use good personal hygiene practices in accordance with this material.
- Use product only as directed.
- Avoid contact with eyes, skin, and clothing. Please wear appropriate personal protective equipment for handling of this product as outlined in Section 8.
- Do not ingest or inhale.

STORAGE:

- Store in accordance with good industrial practices.

SPECIAL HANDLING CONSIDERATIONS: This material has an expected shelf life of 24 months.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION MEASURES

EXPOSURE LIMITS:

No exposure limits have been established for this product, as a whole, by OSHA, ACGIH, or UCC.

PERSONAL PROTECTIVE EQUIPMENT: Appropriate personal protective equipment (e.g., chemical splash goggles) is recommended for the handling of this product.

To prevent accidental ingestion of this material, use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

SECTION 9 - PHYSICAL AND CHEMICAL DATA

APPEARANCE:	Liquid, colorless to light yellow
ODOR:	Slight odor
ODOR THRESHHOLD:	Not applicable
pH:	Neutral
FLASH POINT:	None
AUTOIGNITION TEMPERATURE:	No data available
FLAMMABILITY:	No data available
EXPLOSION LIMITS:	No data available
MELTING POINT:	Approx. 0 °C
BOILING POINT (760 mm Hg):	Approx. 100 °C

VAPOR PRESSURE:	17.5 mm Hg at 20 °C
VAPOR DENSITY (AIR = 1):	No data available
SPECIFIC GRAVITY (WATER = 1):	Approx. 1.0
SOLUBILITY:	Soluble
PARTITION COEFFICIENT: (N-OCTANOL/WATER)	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	No data available
VOC CONTENT:	No data available
EVAPORATION RATE: (N-BUTYL ACETATE = 1)	No data available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable when handled or stored under the recommended conditions.

HAZARDOUS POLYMERIZATION: Product will not undergo hazardous polymerization.

CHEMICAL INCOMPATIBILITY: This material is normally stable and has no instabilities which will illicit dangerous products. However, the combination of elevated temperatures with strong bases, strong acids, and/or strong oxidizing agents should be avoided.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposition products depend upon temperature and air supply; in general, decomposition of the product results in the generation of oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRIMARY ROUTES OF ENTRY: Inhalation, ingestion, skin adsorption, eye contact. (Irritant)

ACUTE TOXICITY

Estimated from similar materials: **Ingestion** LD50, Rat; >5,000 mg/kg

Estimated from similar materials: **Skin Absorption** LD50 Rabbit; >5,000 mg/kg

ACUTE SYMPTOMS:

Eye Contact: May cause moderate eye irritation.

Skin Contact: Brief contact may cause moderate skin irritation with local redness.

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation: No adverse effects are anticipated from single exposure to vapor.

Ingestion: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury.

DELAYED EFFECTS: None

CHRONIC EFFECTS: None



MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: No evidence of a teratogenic effect (birth defect).

SENSITIZATION: No evidence of a sensitization effect.

REPRODUCTIVE: No evidence of negative reproductive effects.

CHRONIC SYMPTOMS: None.

CARCINOGENICITY

- IARC No component of this product is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP No component of this product is identified as a known or anticipated carcinogen by NTP.
- EPA/OSHA No component of this product is identified as a carcinogen or potential carcinogen by EPA/OSHA.

SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

PERSISTENCE AND DEGRADABILITY: The active ingredient of this product is readily biodegradable; the material passes OECD test(s) for ready biodegradability

BIOACCUMULION: No data available

SOIL TO GROUNDWATER MOBILITY: No data available

OTHER ADVERSE EFFECTS: None

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer to assure compliance.

SPECIAL CONSIDERATIONS FOR DISPOSAL: Empty containers should be recycled or disposed of through an approved waste management facility. Unused and uncontaminated excess product can be sent to a licensed, permitted incinerator.

SECTION 14 – TRANSPORT INFORMATION

This product is a **DOT NON-REGULATED MATERIAL**.

SECTION 15 – REGULATORY INFORMATION

U.S. 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

Federal/State/Local Regulations: To the best of our knowledge, this product does not contain chemicals at levels which require reporting.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the conditions of the statute.

SECTION 16 – OTHER INFORMATION

NFPA RATING:

- Health: 1
- Flammability: 0
- Reactivity: 0

The information contained herein is believed to be accurate and is offered in good faith. The above information is, in part, based on material safety data sheets supplied by the vendors of the raw materials used in this product. Because product use is beyond our control, no warranty is given, expressed, or implied. Mainstream Engineering Corporation cannot assume any liability for the use of information contained herein or from damage resulting from handling or contact with the above product. To determine applicability or effect of any law or regulation with respect to the product, users should consult a legal advisor or appropriate governmental agency.

PREPARATION INFORMATION

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