SAFETY DATA SHEET

Date Issued: 12/15/2015
Date Revised : 10/15/2019

Vinaflex™

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Vinaflex™

DESCRIPTION: Mass Loaded Vinyl

2. COMPANY IDENTIFICATION

DISTRIBUTOR:
GLT Products
6810 Cochran Road
Solon, OH 44139

MANUFACTURER
WALTON PLASTICS
20493 HANNAN PARKWAY
WALTON HILLS, OH 44146

EMERGENCY TELEPHONE
CHEM-TEL: (440) 786-7711

INFORMATION PHONE: (440) 786-7711

3. HAZARDS IDENTIFICATION

PRECAUTIONARY INFORMATION

Proper procedures must be followed at all times when processing PVC compounds. Vapors and fumes released at elevated temperatures may result in exposure.

HEALTH HAZARDS

OSHA REGULATION STATUS

All ingredients are enclosed by the fused polymer and therefore are not considered by the OSHA Hazard Communication Standard (29CFR1910.1200).

Routes of entry include eye and skin contact, ingestion and inhalation. Refer to Section 4 for First Aid Measures.

PHYSICAL HAZARD

PVC compounds will not normally continue to burn after ignition without an external fire source. PVC evolves hydrogen chloride, carbon monoxide, and other gases when burned.

LABEL ELEMENTS

Hazard Pictograms

GHS02 GHS07 GHSOS

SIGNAL WORD: Warning

CLASSIFICATION SYSTEM

HMIS RATING (US ONLY): Health 1, Fire Hazard 1, Reactivity 0 scale 0-4

NFPA RATING: Health 0, Flammability 0, Reactivity 0 scale 0-4

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4. COMPOSITION/INFORMATION ON INGREDIENT

Component	CAS#	Wt.%
Polyvinyl Chloride Resin	68648-82-8	20–80%

Compounded PVC is an inert material in its normal usage. All the components listed below are encapsulated in the fused PVC matrix. Typical composition for this compound-application are listed below, not all components are used in all formulas.

PROPRIETARY ADDITIVES

Component	CAS#	Wt.%	Ingredients
Plasticizer	Mixture	0-60	High Molecular weight esters
Inert Filler	Mixture	0-45	$CaCO_3$, talc, carbon black, clay
Heat Stabilizer	Mixture	1-3	Organometallic compounds of barium and/or calcium-zinc
Colorant	Mixture	0-5	Organic and inorganic colorants

5. FIRST AID MEASURE

EYES: Flush with water. If irritation persists seek medical attention.

SKIN: No adverse effects anticipated under normal conditions. Flush with water to remove material from skin. Obtain medical attention if irritation is present and persists.

INHALATION: No adverse effect anticipated under normal conditions if adequately ventilated. If exposure occurs, remove the exposed individual to fresh air. Obtain immediate medical attention if irritation persists.

INGESTION: Do not induce vomiting. Seek medical attention.

6. FIREFIGHTING MEASURES

FLASH IGNITION TEMPERATURE: >600°F

AUTO IGNITION TEMPERATURE: Not Applicable

FIRE FIGHTING PROCEDURES/FIRE EXTINGUISHING MEDIA: Water, carbon dioxide, foam and dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS: PVC evolves hydrogen chloride, carbon monoxide, and other gases when burned. Exposure to combustion products may be fatal and should be avoided. PVC Compounds will normally continue to burn after ignition without an external source. Do not allow fire fighting runoff water to enter natural streams. The water may contain HCL and other combustion products.

FIRE FIGHTING EQUIPMENT: Wear full bunker gear including positive self contained breathing equipment.

7. ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE: Remove unnecessary personnel from the release area. Wear appropriate personal protective equipment during cleanup.

PROTECT ENVIRONMENT: Contain material to prevent contamination of the soil, surface water or groundwater.

CLEAN UP: Clean up uncontaminated material and recycle into process. Sweep or vacuum.

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8. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING: Use proper personal protective equipment during handling. Minimize dust generation and accumulation. Use good housekeeping practices.

PROTECTIVE MEASURES: Use methods to minimize generation of dust. Wash thoroughly after handling. PVC resin processing may result in the release of low levels of vinyl chloride monomer. Use only in well-ventilated areas.

STORAGE: Store in a cool, well ventilated dry place away from direct sunlight, heat, and incompatible material. Store away from food and beverages. Keep container closed to prevent contamination.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

All personal protective equipment should be selected in accordance with the hazard assessment required by 29CFR 1919.132.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed. However, if dust is produced during handling, a NIOSH approved air purifying filter respirator that meets the requirements of 29CFR 1919.134 should be used. Full-face self contained breathing apparatus may be needed when dealing with vapors from combustion of product. Respirators must be selected accordingly with airborne levels.

EYE PROTECTION: Use safety glasses.

SKIN PROTECTION: Protective clothing and gloves for contact with molten plastic.

ENGINEERING CONTROL: Provide general and local exhaust ventilation to control airborne. Local exhaust ventilation should comply with OSHA regulations and the American Conference of Industrial Hygienist, Industrial Ventilation–A Manual of Recommended Practice.

EXPOSURE GUIDELINES: No exposure limits have been established for PVC. It is recommended that exposure be kept below the limits for Particulate not otherwise classified according to the Centre for Disease Control and Prevention:

OSHA-PEL: 15mg/m^3 8hr-TWA (Total Dust)
5mg/m^3 8hr-TWA (Respirable)

PEL: Permissible Exposure Limit

TWA: Time-Weighted Average Concentration

Under normal processing conditions, no occupational exposure to vinyl chloride monomer exceeding the established limits for this material are anticipated.

The OSHA-PEL for vinyl chloride is 1 ppm over an 8hr-TWA. The OSHA-STEL for vinyl chloride is 5ppm for any 15-minute period.

10. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pellets of different sizes, hardness, and colors

ODOR: No distinct odor

BOILING POINT: Solid

MELTING POINT: Varies

SOLUBILITY: None

SPECIFIC GRAVITY (WATER=1.O): 1.90

VAPOR DENSITY (AIR=1.O): Not Applicable

VAPOR PRESSURE: Not Applicable

PH: Not Applicable

VOC: Less than 5 parts per million

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11. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

POLYMERIZATION: Hazardous polymerization does not occur.

CONDITIONS TO AVOID: Instantaneous temperatures above 240°C (464°F). Prolonged heating combined with shear during processing can generate hazardous decomposition products.

HAZARDOUS DECOMPOSITION PRODUCTS: Overheating may cause thermal degradation of PVC compound. Fumes and vapor (including CO, CO_2 and HCL) may be produced as a result of thermal degradation. These emissions are possible to occur during normal operating conditions and may accumulate if ventilation is insufficient.

INCOMPATIBLE MATERIALS: Do not allow this product to contact acetal or acetal copolymer within the processing machine. At processing conditions the two materials are mutually destructive.

12. TOXICOLOGICAL INFORMATION

This information on PVC compounds is extracted from HSDB and NTP databases.

ANIMAL TOXICITY

ORAL:	Rat, TD_{LO}	210gm/kg
INHALATION:	Mouse, LC_{50}	140mg/m^3

TD_{LO} = Lowest toxic dose in a given species by a given route of exposure.

LC_{50} = Concentration that is lethal to 50% of a given species by a given route of exposure.

Rodents exposed to PVC by dietary or inhalation routes for 6-24 months have shown no significant toxicological effects.

While PVC is generally considered an inert polymer, exposure to PVC dust has been reported to cause lung changes in animals and humans, including decreased respiratory capacity and inflammation. However, exposure approaching the nuisance dust exposure limits are not anticipated to pose a significant health risk.

13. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

AQUATIC: No data available

BIODEGRADATION: Not subject to biodegradation

Due caution should be exercised to prevent accidental release of this material to the environment.

14. DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT INFORMATION: Do not dump into any sewer, on the ground, or into body of water. Any disposal practice must be in compliance with local, state and federal laws and regulations.

THIS PRODUCT IS NOT REGULATED UNDER THE FOLLOWING REGULATIONS:

- United States Department of Transportation, DOT
- United States Coast Guard regulations
- International Maritime Organization (IMO) regulations
- International Civil Aviation Organization (ICAO) regulations
- International Air Reports Association (IATA) regulations
- European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) regulations
- European Agreement Concerning the International Carriage of Dangerous Goods by Rail (RID) regulations
- Australian Dangerous Good (ADG) regulations

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15. REGULATORY INFORMATION

OSHA SARA TITLE III: All Sections are Not Applicable for the product.

CERCLA: Section 102(a) Hazardous Substances (40 CFR 302.4): Not Applicable

PROPOSITION 65: This product contains substances known to the state of California to cause cancer and/or reproduction toxicity.

CANADIAN REGULATION: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and this SDS contains all information required by this regulation.

WHMIS CLASSIFICATION: Not a Controlled Product.

16. OTHER INFORMATION

The information and data herein are believed to be accurate and have been compiled from sources believed to ber eliable. Walton Plastics or GLT Products makes no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information herein. Walton Plastics will not be liable for claims relating to any party's use or reliance on information and data contained herein. This information relates to the material designated and may not be valid for such material used in combination with any other materials and/or processes.