



Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product: **Nordic Void, all versions.**

Issue Date: 03/25/2014

Norseman Inc. Customer Information Center: 403-543-3366 Toll Free: 1-888-808-8055

EMERGENCY NUMBERS:

Norseman Inc.
(403) 543-3366

For emergency and general information 8:00 am – 4:30 pm (MST),
Monday – Friday

Section 2 – Composition / Information on Ingredients

<u>HAZARDOUS INGREDIENT</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>
Polyethylene	9002-88-4	85-100	N.E.	N.E.
Hydrocarbon Gas	75-28-5 or 74-98-6	0-5	800 ppm	800 ppm
Glycerol Stearate	Mixture	0-2	N.E.	N.E.
Color Concentrate	Variety	0-1	N.E.	N.E.

Section 3 – Hazards Identification

APPEARANCE: Solid Plastic Foam. White or colored solid.

ODOR: None

EYE: Dust may cause irritation or corneal injury due to mechanical action. Fumes released during hot operation may cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: Fumes generated under heat may cause eye irritation and respiratory irritation. Dust may cause irritation to upper respiratory tract and lungs.

NOTE: Read the entire MSDS for a more thorough evaluation of the hazards.

Section 4 – First Aid

SKIN CONTACT: Wash with soap and water.

EYE CONTACT: Flush eyes with plenty of water to remove particulate.

INGESTION: Not a likely route of exposure. Induce vomiting if large quantities are swallowed.

INHALATION: Remove to fresh air. If not breathing administer artificial respiration. Oxygen may be given by qualified personnel. Get medical attention.

Section 5 – Fire Fighting Measures

FLASH POINT: Polyethylene: N.A.
(Hydrocarbon Gas: -120 °F (-84 °C))*

FLAMMABLE LIMITS (LEL): Polyethylene: N.A.
(Hydrocarbon Gas: 1.8% by volume)*

FLAMMABLE LIMITS (UEL): Polyethylene: N.A.
(Hydrocarbon Gas: 8.5% by volume)*

*Only trace amounts of residual blowing agent (under 2 wt%) present in the foam

EXTINGUISHING MEDIA: Water, carbon dioxide (CO₂) and dry chemical.

FIRE AND EXPLOSION HAZARDS: Trace amounts of residual blowing agent may be present in the foam. Mechanical and thermal processes may produce dust and flammable vapors which may be potential explosion hazards. Tightly sealed containers may burst under fire or intense heat.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with positive pressure self-contained breathing apparatus in enclosed areas.

NFPA HAZARD CODE: Health: 0
Flammability: 1
Reactivity: 0
Special Hazard: None

Section 6 – Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Handle as general inert material.

PERSONAL PRECAUTIONS: There are no special required instructions.

ENVIRONMENTAL PRECAUTIONS: There are no special required instructions.

Section 7 – Handling and Storage

STORAGE TEMPERATURE: Max. 160° F (71° C)

PRECAUTIONS TO BE TAKEN IN HANDLING, STORAGE AND TRANSPORTATION:

WARNING: This polyethylene foam is made with a flammable hydrocarbon blowing agent, most of which is removed prior to shipment. However, residual flammable vapors may gradually exhaust from the foam during storage, fabrication or use. Avoid close confinement of large foam quantities and sources of ignition near the foam (i.e. smoking, sparks, flames.) Do not store near heating equipment. Heating equipment should be inspected regularly during every heating season to check for pinholes or larger defects in the combustion chamber. Burns readily when exposed to plentiful and hot ignition sources. Use self-contained breathing apparatus in the event of fire.

WARNING: Fabricating operations which cut large numbers of interior foam cells, can release localized amounts of flammable, residual blowing agent. Provide adequate ventilation to avoid the build up of blowing agent concentration.

WARNING: Transport large quantities of this polyethylene foam in ventilated vehicles. Exercise caution when opening vehicles containing this polyethylene foam to avoid all possible sources of ignition (lit tobacco products, sparks, etc.) near the foam and vehicle.

Section 8 – Exposure Controls / Personal Protection

EXPOSURE LIMITS:

OSHA-PEL:	Hydrocarbon Gas	800 ppm
ACGIH-TLV:	Hydrocarbon Gas	800 ppm

PERSONAL PROTECTIVE EQUIPMENT

EYE / FACE PROTECTION: Use goggles or safety glasses with side shields when exposed to foam dust or particles.

RESPIRATORY PROTECTION: In dusty atmosphere and where fumes are generated above regulatory limits, wear appropriate respirator protection.

VENTILATION: Use local exhaust ventilation if necessary to maintain hydrocarbon gas levels below the PEL and LEL. For guidance on engineering controls, refer to the ACGIH publication "Industrial Ventilation."

Section 9– Physical and Chemical Properties

FORM	Solid plastic foam
BOILING POINT	N.A.
COLOR	Natural, Black, Light Green and other colors.
VAPOR PRESSURE	N.A.
VAPOR DENSITY (AIR = 1)	N.A.
BULK DENSITY	20 - 200 Kg/m ³
MOLECULAR WEIGHT	N.E.
% VOLATILE BY VOLUME	Nil
MELTING POINT	230° F (110° C)
SOLUBILITY IN WATER	Not soluble

Section 10 – Stability and Reactivity

STABILITY / INSTABILITY: Stable

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid flame, very high temperature, and UV.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidants (long contact).

HAZARDOUS DECOMPOSITION PRODUCTS: None

Section 11– Toxicological Information

REPEATED DOSE TOXICITY: Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Section 12– Ecological Information

This product is inert to the environment and is not expected to exhibit any significant biodegradation.

Section 13 – Disposal Considerations

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/ Provincial and local laws and

regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. NORSEMAN INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION (Composition Information).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device, and landfill.

As a service to its customers, Norseman can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics. Telephone Norseman's Customer Information Center at 403-543-3366 for further details.

Section 14 – Transport Information

DOT – Non-Bulk	Not regulated
DOT – Bulk	Not regulated
IMDG	Not regulated
ICAO / IATA	Not regulated

WARNING: Transport large quantities of this polyethylene foam in ventilated vehicles. Exercise caution when opening vehicles containing this polyethylene foam to avoid all possible sources of ignition (lit tobacco products, sparks, etc.) near the foam and vehicle.

Section 15– Regulatory Information

OSHA HAZARD COMMUNICATION STANDARD:

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	No
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to Know Act of 1986) Section 313.

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List and / or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

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 statute.

US 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

Canadian Environmental Protection Act (CEPA) – Domestic Substances List (DSL)

All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Section 16 – Other Information

HAZARD RATING SYSTEM:

Health - 0 Flammability - 1 Reactivity- 0

RECOMMENDED USES AND RESTRICTIONS: Cushion Packaging

REVISION

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LEGEND

N/A	Not available
W/W	Weight / Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation

Action Level A value set by OSHA that is lower than the PEL which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded

Section 17 – Other Information

This information is not intended to convey all specific regulatory or operational requirements / information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Norseman Inc. urges each customer or recipient of the (M)SDS to study it carefully and consult appropriate expertise as necessary or appropriate, to become aware of and understand the data contained in the (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's / user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since the conditions for use of the product are not under the control of the manufacturer, it is the buyer's / user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained and (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.