

**SAFETY DATA SHEET**

REVISION: 09/16/2019

**Polyethylene Insulation**

REPLACES: 04/04/2017

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

<b>PRODUCT NAME</b>	Tubolit <sup>®</sup> , Imcoa <sup>®</sup> and Tundra <sup>®</sup> Products: Tubolit <sup>®</sup> SS, Tubolit <sup>®</sup> , Tubolit <sup>®</sup> WLS, Tubolit <sup>®</sup> W SS, Imcoa <sup>®</sup> , Imcoa <sup>®</sup> SS, Imcoa <sup>®</sup> W SS, Imcosheet <sup>®</sup> , Tundra <sup>®</sup> , Tundra <sup>®</sup> SS
<b>DESCRIPTION</b>	Polyethylene insulation
<b>RECOMMENDED USE</b>	Pipe insulation
<b>MANUFACTURER /DISTRIBUTOR</b>	Armacell LLC 55 Vilcom Center Drive, Suite 200 Chapel Hill, NC 27514 <a href="http://www.armacell.us">www.armacell.us</a>  <b>Technical contact point:</b> Kartik A. Patel Technical Services Manager – Advanced Insulation Tel: +1-919-304-8907 Kartik.a.patel@armacell.com
<b>EMERGENCY INFORMATION</b>	Armacell LLC 7600 Oakwood Street Extension Mebane, NC 27302 Tel: +1-919-304-3846 <a href="http://www.armacell.com">www.armacell.com</a>

**2. HAZARDS IDENTIFICATION**

This product is considered an article according to 29 CFR 1910.1200 by which it is categorized as a "Non Hazardous Chemical." As such, it is exempt from the requirements of the OSHA Hazard Communication Standard.

While this product is classified as a "Non Hazardous Chemical" as defined by OSHA Hazard Communication, this Safety Data Sheet contains valuable information critical to the safe handling and proper use of the product.

A flammable hydrocarbon gas is used as a blowing agent in Polyethylene Foam. Trace amounts of this gas may remain in the product at time of shipment

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>CAS Number</b>	<b>Concentration</b>
Polyethylene	9002-88-4	85 – 100%
Isobutane	75-28-5	0 – 10%
Other proprietary additives	N/A	0 – 15%

The specific chemical composition and concentrations have been withheld as trade secrets

**4. FIRST-AID MEASURES**

**IN CASE OF INHALATION** Not applicable

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IN CASE OF SKIN CONTACT Not applicable

IN CASE OF EYE CONTACT Not applicable

IN CASE OF INGESTION Not applicable

**5. FIRE-FIGHTING MEASURES****SUITABLE EXTINGUISHING MEDIA** Unrestricted, Flashpoint: Isobutene is 117°F. Range: LEL =1.6% by volume UEL 8.4% by volume.**SPECIAL EXPOSURE HAZARDS ARISING FROM THE PREPARATION** Fire gases, do not breathe. Emits toxic fumes under fire conditions because of incomplete incineration. In the case of fire wear self-contained breathing apparatus.**6. ACCIDENTAL RELEASE MEASURE****PERSONAL PRECAUTIONS** Not applicable**ENVIRONMENTAL PRECAUTIONS** Not applicable**METHODS FOR CLEANING UP / TAKING UP** Take up mechanically.**7. HANDLING AND STORAGE****HINTS FOR SAFE HANDLING** None**HINTS FOR PROTECTION AGAINST FIRE AND EXPLOSION** PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE, FLAMMABLE VAPORS OF ISOBUTANE MAY BE GENERATED DURING UNVENTILATED STORAGE OF LARGE AMOUNTS OF THIS PRODUCT (FOR EXAMPLE IN STORAGE TRAILERS)  
WARNING: TO PREVENT THE BUILD-UP OF FLAMMABLE VAPORS, DO NOT STORE LARGE QUANTITIES OF THIS PRODUCT IN UNVENTILATED SPACES**HINTS FOR SEPARATION OF INCOMPATIBLE PRODUCTS** None**FURTHER INFORMATION ON STORAGE CONDITIONS** Can be stored in clean, dry rooms under normal conditions with respect to humidity (50 - 70 %) and surrounding temperature of 32 °F – 95 °F (0 °C - 35 °C).**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****GENERAL HEALTH MEASURES** Not applicable**RESPIRATORY PROTECTION** Not applicable**HAND PROTECTION** Not applicable**EYE PROTECTION** Not applicable

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APPEARANCE	Tubes in various ID's and Wall thickness with and without self adhesive closure strips
COLOR	Dark grey, White
ODOR	Characteristic
MELTING POINT	Not applicable
BOILING POINT	Not applicable
LOWER EXPLOSION LIMIT	1.6% by volume
UPPER EXPLOSION LIMIT	8.4% by volume
DENSITY AT 73 °F (23 °C)	1.0 – 3 lb/ ft <sup>3</sup> (16 – 48 kg/ m <sup>3</sup> )
WATER SOLUBILITY 73 °F (23 °C)	Insoluble

**10. STABILITY AND REACTIVITY**

CONDITIONS TO AVOID	Avoid open flames.
HAZARDOUS REACTION	No dangerous reactions known.
HAZARDOUS DECOMPOSITION PRODUCTS	No decomposition if used as prescribed.

**11. TOXICOLOGICAL INFORMATION**

EXPERIENCE MADE IN PRACTICE	When used and handled according to specification, the product does not have any harmful effect according to our experience and knowledge.
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**12. ECOLOGICAL INFORMATION**

ADDITIONAL ECOLOGICAL INFORMATION	The product is classified non-hazardous to waters.
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**13. DISPOSAL CONSIDERATIONS**

DISPOSAL PRODUCT	Dispose waste according to applicable local, state and federal regulations.
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**14. TRANSPORT INFORMATION**

TRANSPORT BULK SHIPMENTS OF THIS PRODUCT IN VENTILATED TRAILERS ONLY.

WARNING: TO PREVENT POTENTIAL FIRE OR EXPLOSION, DO NOT WELD OR APPLY INTENSE HEAT TO CLOSED CONTAINERS WHICH CONTAIN THIS PRODUCT. OPEN CLOSED CONTAINERS IN A WELL-VENTILATED AREA AWAY FROM SPARKS OR OPEN FLAMES.

WARNING: THIS PRODUCT IS COMBUSTIBLE AND SHOULD NOT BE EXPOSED TO SPARKS OR OPEN FLAMES. LARGE QUANTITIES OF THIS PRODUCT CAN BURN RAPIDLY AND RELEASE TOXIC GASES, INCLUDING CARBON MONOXIDE.

WARNING: FABRICATION METHODS INVOLVING CUTTING OF THIS PRODUCT MAY RELEASE ISOBUTANE REMAINING IN THE FOAM CELL STRUCTURE. PROVIDE ADEQUATE VENTILATION TO INSURE THAT THE ISOBUTANE CONCENTRATIONS REMAIN BELOW THE ACGIH THRESHOLD LIMIT VALUE (TLV) OF 800 PPM AND LOWER FLAMMABLE LIMIT OF 1.8% IN AIR BY VOLUME TO PROTECT WORKERS AND ELIMINATE THE POSSIBILITY OF DEVELOPING FLAMMABLE OR HAZARDOUS CONCENTRATIONS.

OTHER PRECAUTIONS: N/A. WORK SITE ENVIRONMENT: N/A.

**15. REGULATORY INFORMATION**

This product does not require labelling in terms of REACH regulation (EC) 1907/2006

**16. OTHER INFORMATION**

The data in this safety data sheet describe the safety requirements of our product based on our current level of knowledge and may not be considered to guarantee any product properties and it is sufficient for **United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS) standard**. However, we have no knowledge of or control over the working conditions. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.