

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: NuTack BLU 046-4062
 DESCRIPTION: REACTIVE TACKIFIER
 PRODUCT CODE IDENTITY: 0464062B3
 NPCA HMIS RATING: H 2* F 4 R 1
 LAST REVISED: 11/05/2014
 PRINT DATE: 09/04/2015
 COMPANY NAME: POLYNT COMPOSITES USA INC.
 ADDRESS: 99 E COTTAGE AVE
 POLYNT COMPOSITES USA INC.
 PRODUCT STEWARDSHIP
 CARPENTERSVILLE IL 60110
 CUSTOMER: INFORMATION TELEPHONE:
 1-800-821-3590
 ATTENTION:

24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
 001-703-527-3887 (INTERNATIONAL)

Polynt certifies that its products comply with all the provisions of the
 Toxic Substances Control Act (TSCA), unless otherwise stated by
 ingredient in Section II.

* * * * *
 *** The percent by weight composition data given in Sections II ***
 *** and X are NOT SPECIFICATIONS, but are based on 'target' ***
 *** formula values for each ingredient in the product. The data ***
 *** are presented as ranges for low hazard ingredients and single ***
 *** point values for ingredients of regulatory concern. Actual ***
 *** batch concentrations will vary within limits consistent with ***
 *** separately established product specifications. ***
 * * * * *

SECTION II INGREDIENTS

1
 CAS# 000115-10-6
 DIMETHYL ETHER
 PCT BY WT: 20 - 30
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED
 LC50, Inhalation: 164,000 ppm, 4 hr (RAT)
 OTHER: NO EFFECT 10,000ppm(6 hr/day,5 day/wk,10 days,RAT)
 OTHER (cont.): NO EFFECT 2,000ppm(LIFETIME EXPOSURE,RAT)

2
 CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: .3580 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
 ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (8 HR TWA)
 OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
 OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLo: 5000 PPM/8H (RAT)
 OTHER (cont.): NIOSH TWA: 50 PPM (215 MG/M3)
 OTHER LIMITS:
 IARC - Group 2B See Section V NTP - Reasonably Anticipated
 to be a Human Carcinogen

3
 CAS# 000067-64-1

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ACETONE

PCT BY WT: 35.1460 VAPOR PRESSURE: 186.000 MMHG @ 68F
EXPOSURE LIMIT:

ACGIH TLV/TWA: 500 PPM (1188 MG/CU.M.)
ACGIH TLV/STEL: 750 PPM (1782 MG/CU.M.)
OSHA PEL/TWA: 1000 PPM (2400 MG/CU.M.)

This product contains one or more reported carcinogens or suspected
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate
subsection above under OTHER LIMITS.

This substance is classified as a hazardous air pollutant.

SECTION III PHYSICAL DATA

Boiling Range: High: -N/A F Low: 11.2- F
Vapor Pressure: See Section II
Theoretical Weight per Gallon, Calculated: 7.2768 LB/GL
Theoretical Specific Gravity, Calculated: .874
Theoretical VOC, Calculated: 1.845 LB/GL
--If applicable , see Section X for further VOC information--
Physical State: AEROSOL
Appearance: BLUE
Odor: ETHER, ACETONE
Odor Threshold: -N/A
pH: -N/A
Freezing Point: -N/A
Water Solubility: ADHESIVE IS INSOLUBLE
Coefficient of Water/Oil Distribution: -N/A
Mechanical Impact Explosion: NO KNOWN HAZARD
Static Electricity Explosion: AVOID STATIC CHARGE
% HAP BY WEIGHT .358
% MONOMER BY WEIGHT .358

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CHARACTERISTICS:
Lowest Closed Cup Flashpoint: 42.0- F
Lower Flammable Limit in Air: 1.1 % by volume
OSHA Flammability Classification: Class IA
DOT Flammability Classification: Flammable Gas
DOT SHIPPING NAME:
U.S. DOT GROUND/WATER CONSUMER COMMODITY, ORM-D
IATA, ICAO UN8000, CONSUMER COMMODITY, 9
CANADA TDG CONSUMER COMMODITY (UN1950, AEROSOLS, 2.1)

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EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Extremely flammable. Vapors may cause flash fire. These containers are aerosol cans and are under pressure. Protect them from direct sunlight, heat, electrical equipment, sparks, flames, or any other heat source. Never use welding or cutting torch on or near these containers. A can that appears to be empty may contain residue and can ignite explosively if heated.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

ADDITIONAL TRANSPORTATION INFORMATION:

Freight Classification:

NMFC: 149980/SUB 2 RESIN COMPOUNDS, LIQUID LTL CLASS 55

SECTION V HEALTH HAZARD DATA

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea. If continued indefinitely, loss of consciousness, liver and kidney damage may result.

Reports have associated repeated or prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT:

Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing. Thoroughly clean contaminated shoes. If affected by inhalation of vapors or spray mist remove to fresh air. If swallowed, do not induce vomiting. Get medical attention immediately.

Based on the presence of components (02)

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

OTHER HEALTH HAZARDS:

STYRENE MONOMER

The 12th Report on Carcinogens issued by the National Toxicology Program lists styrene as a "reasonably anticipated" carcinogen, but the Report cautions that the NTP listing does not mean that styrene presents a risk to persons in their daily lives. The Styrene Information and Research Center does not agree with the classification as it did not include a

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review of all available data. SIRC states: "HHS included styrene in the 12th RoC despite the fact that European Union regulators have determined styrene does not represent a human cancer concern. E.U. scientists reviewed the full styrene database, weighing all of the available data in reaching their conclusion."

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

DIMETHYL ETHER (DME)

DME exhibits a low order of both acute and chronic toxicity. An ACGIH TLV has not been established but a 1000 ppm exposure limit is suggested for the workplace environment.

The primary physiological action of DME is that of a weak anesthetic at high inhaled levels. Slight maternal and fetal toxicity is seen at air concentrations of 20,000 ppm and higher. No evidence of teratogenicity has been observed at any test level. No mutagenicity or evidence of bioaccumulation has been observed, with DME exhibiting a very short biological half-life.

SECTION VI REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: None under normal conditions.
 CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong acids and strong oxidizing agents. If this product is not water reducible, avoid water.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

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Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during use of this product until vapors are exhausted, unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. Refer to OSHA Standard 1910.94.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Do not take internally. Wash hands after using and before smoking or eating. Contents are under pressure. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. When spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts. Do not puncture or incinerate containers even if empty. Dispose of in accordance with all applicable local, state, and Federal regulations.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

SECTION X Sara Title III Information

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

STYRENE MONOMER

CAS# 000100-42-5 PCT BY WT: .3580

POLYNT COMPOSITES USA INC.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

LIMITED WARRANTY. Seller warrants that: (i) Buyer shall obtain good title

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to the product sold hereunder, (ii) at shipment such product shall conform to Seller's specifications for the product; and (iii) the sale or use of such product will not infringe the claims of any U.S. patent covering the product itself, but Seller does not warrant against infringement which might arise by the use of said product in any combination with other products or arising in the operation of any process. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO SELLER. ANY ADDITIONAL REPRESENTATIONS OR SUGGESTIONS REGARDING THE PRODUCT OR ITS POSSIBLE USES ARE BASED UPON SELLER'S GOOD FAITH OPINION AND BELIEF, BUT ARE NOT TO BE CONSTRUED AS AFFIRMATIONS OF FACT, PROMISES, OR DESCRIPTIONS, AND SHALL IN NO WAY BE DEEMED PART OF THE SALE OF PRODUCT. In particular, and without limiting the foregoing, because of environmental and use conditions beyond Seller's control, Seller offers no warranty and makes no promise concerning the results that may be obtained by the Buyer (or the Buyer's customer) with the product or the performance of the product. Each user should satisfy itself, by adequate testing, of the suitability of the product for its particular application.

LIMITATION OF LIABILITY. (a) Seller's total liability for any claim arising out of or in connection with this contract, including for breach of contract, warranty, statutory duty, or for other tort, including seller's negligence, shall not exceed the purchase price of such product as to which such liability arises. Seller shall not be liable for any injury, loss or damage, resulting from the handling or use of the product shipped hereunder whether in the manufacturing process or otherwise. IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, CAPITAL OR BUSINESS OPPORTUNITY, DOWNTIME COSTS, OR CLAIMS OF CUSTOMERS OR EMPLOYEES OF BUYER, WHETHER IN AN ACTION UNDER CONTRACT, NEGLIGENCE OR ANY OTHER THEORY, ARISING OUT OF OR IN CONNECTION WITH THIS CONTRACT, OR THE USE, INABILITY TO USE, OR PERFORMANCE OF THE PRODUCT.

(b) If Seller furnishes technical or other advice to Buyer, whether or not at Buyer's request, with respect to processing, further manufacture, other use or resale of the products, Seller shall not be liable for, and Buyer assumes all risk of, such advice and the results thereof. The information provided is believed to be accurate at the time of preparation, or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. (Rev. 04/2015)