# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NP521 PART A PRODUCT CODES: 521 A

MANUFACTURER: GlobMarble Inc. STREET ADDRESS: 2201 Neptune Ave CITY, STATE, ZIP: Brooklyn, NY. 11224

INFORMATION PHONE: 347-717-4088 EMERGENCY PHONE: Chemtrec 800-424-9300 FAX PHONE: 724-483-9306

PREPARED BY: Harry Jackson

DATE REVISED: 5/15/16

Chemical Name or Class: Polyacrylate solution

# SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Skin corrosion/irritation category 2, serious eye damage/ eye irritation category 2B, Long term hazard to aquatic Environment category 3 GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark



Hazard Statements: Warning: Causes skin irritation Warning: Causes eye irritation Harmful to aquatic life with long lasting effects Precautionary statements: P102 Keep out of reach of children. P103 Read label before use P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. Response: P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. P337 + P313 IF eye irritation persists: Get medical advice/attention. P302 + P352 IF ON SKIN: wash with plenty of soap and water. P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention. P362 + P364 take off contaminated clothing and wash it before reuse. Disposal: P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws HMIS HAZARD CLASSIFICATION PERSONAL PROTECTIVE EQUIPMENT: G HEALTH: 1 FLAMMABILITY: 1 **REACTIVITY: 0** POTENTIAL HEALTH EFFECTS EYES: MATERIAL OR HIGH VAPOR CONCENTRATION CAN CAUSE IRRITATION TO THE EYES. SKIN: CAN CAUSE IRRITATION TO SKIN. INGESTION: LIQUID CAN CAUSE IRRITATION TO THE MUCOUS MEMBRANES IF SWALLOWED. INHALATION: HIGH VAPOR CONCENTRATION CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT. HEALTH HAZARDS (ACUTE AND CHRONIC): PROLONGED OR RÈPEATED EXPOSURE MAY CAUSE ASTHMA AND SKIN SENTIZATION OR OTHER ALLERGIC RESPONSES. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS. Repeated or prolonged exposure of high levels of solvents via inhalation and ingestion may affect the liver or central nervous system. CARCINOGENICITY OSHA: NO NTP: NO IARC: NO ADDITIONAL CARCINOGENICITY INFORMATION:

CAS# 111-76-2: May contain trace components of benzene, toluene, ethylbenzene and NJTSRN 800963-5170 and contains chemicals known to the state of California to cause cancer and birth defects.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT                               | CAS NO.                  | OSHA PEL  | ACGIH TLV | OSHA STEL | WEIGHT % |  |  |
|--|--------------------------|-----------|-----------|-----------|----------|--|--|
| Triethanolamine                          | 102-71-6                 | none      | 5mg/m3    | none      | <1.0     |  |  |
| Propylene glycol n-butyl ether 5131-66-8 |                          | none      | none      | none      | <3.0     |  |  |
| Water                                    | 7732-18-5                | none      | none      | none      | 45-65    |  |  |
| Polyacrylate resin                       | trade secret             | none      | none      | none      | 25-50    |  |  |
| Reactive diluent                         | trade secret             | none      | none      | none      | <3.0     |  |  |
| Dipropylene glycol methyl ether acetate  |                          |           |           |           |          |  |  |
|  | 88917-22-0               | none      | none      | none      | <4.0     |  |  |
| dipropylene glycol monomethyl ether      |                          |           |           |           |          |  |  |
|  | 34590-94-8               | 100ppm    | 150ppm    | 600ppm    | <0.5     |  |  |
| *2-butoxyethanol                         | 111-76-2                 | 50ppm     | 20ppm     | none      | <0.5     |  |  |
| 2-ethyl-1-hexanol                        | 104-76-7                 | none      | none      | none      | <0.5     |  |  |
| naphtha, petroleur                       | n, heavy 64742-82-1      | none      | none      | none      | <0.5     |  |  |
| 2,5,8,11 tetramethy                      | /l 6 dodecyn-5,8 diol et | thoxylate |           |           |          |  |  |
|  | 169117-72-0              | none      | none      | none      | <1.0     |  |  |
| additive                                 | NJTSRN 800963-5023       | none      | none      | none      | 0.1-1    |  |  |

SECTION 3 NOTES: (\*) TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372 ARE PRESENT.

### SECTION 4: FIRST AID MEASURES

#### EYES:

IMMEDIATELTY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST FIFTEEN MINUTES WHILE LIFTING UPPER AND LOWER LIDS. GET IMMEDIATE MEDICAL ATTENTION. SKIN: FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES AND REMOVE ALL CONTAMINATED CLOTHING IMMEDIATLEY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS. INGESTION: DO NOT INDUCE VOMITTING. INGESTION OR VOMITING MAY CAUSE ASPIRATION INTO THE LUNGS RESULTING IN CHEMICAL PNEUMONITIS. INHALATION: REMOVE VICTIM TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY. NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

# SECTION 5: FIRE-FIGHTING MEASURES

 

 FLAMMABLE LIMITS IN AIR, (% by volume)
 UPPER: not available

 LOWER: not available
 LOWER: not available

 FLASH POINT: >200+F
 METHOD USED:

 SETA FLASH
 EXTINGUISHING MEDIA:

 FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES: TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. A SELF CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR FIRE FIGHTERS. COOL ALL FIRE EXPOSED CONTAINERS WITH WATER. UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

# SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID CONTACT WITH MATERIAL. WEAR THE APPROPRIATE SAFETY EQUIPMENT. STOP SPILL AT SOURCE, DYKE AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. TAKE UP THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS.

## SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. OBSERVE GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES. OTHER PRECAUTIONS: MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS OF ALL COMPONENTS TO BECOME FAMILIAR WITH ALL HAZARDS PRIOR TO USING THIS PRODUCT.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. NIOSH APPROVED AIR-SUPPLIED RESPIRATOR DURING THE CLEANING, HIGH TEMPERATURE PROCESSING OR WHEN THERMAL DECOMPOSITION IS SUSPECTED. VENTILATION: AVOID BREATIHING VAPORS. VENTILLATION MUST BE SUFFICIENT TO CONTROL VAPORS PROTECTIVE GLOVES: IMPERVIOUS GLOVES – NEOPRENE OR RUBBER EYE PROTECTION: SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS OTHER PROTECTIVE CLOTHING OR EQUIPMENT: CLEAN BODY COVERING CLOTHING AS WELL AS APRON, FOOTWEAR EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL. WORK HYGIENIC PRACTICES: OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: low viscosity liquid – milky white color – NEGLIGIBLE ODOR BOILING POINT OR RANGE: N/A VAPOR DENSITY (AIR = 1): N/A SPECIFIC GRAVITY (H2O = 1): 1.08 EVAPORATION RATE: N/A SOLUBILITY IN WATER: emulsifiable/miscible

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

# SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE CONDITIONS TO AVOID (STABILITY): AVOID CONTACT WITH OPEN FLAMES AND ALL SOURCES OF IGNITIONS AND SPARKS. Protect from freezing. INCOMPATIBILITY (MATERIAL TO AVOID): AVOID CONTACT WITH STRONG OXIDIZING AGENTS OR MATERIALS. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE AND NITROGEN COMPOUNDS. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

## SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

# Component data:

additive NJTSRN 800963-5023: Acute oral toxicity: LD50 rat>8,000,000 mg/kg; skin irritation rabbit - no skin irritation

**Component 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0**: LD50 Ingestion >2000 mg/kg – rat; Dermal LD 50 >2000 mg/kg – rabbit; severe eye irritant; mild skin irritant; Not mutagenic in Ames test.

CAS# 111-76-2:: Acute oral Toxicity -LD50 rat 530 mg/kg; LD50 rabbit 520 mg/kg; Acute dermal Toxicity LD50 Rabbit 100mg/kg; Acute Inhalation Toxicity LC50 rat 468ppm (4h); Skin Irritation rabbit – moderate skin irritation.; Eye irritant - rabbit

CAS# 104-76-7: Acute Oral Toxicity: LD50 rat >5000mg/kg;; Acute Dermal Toxicity rabbit 1970 mg/kg.; Skin Irritation rabbit – moderate skin irritation.; severe eye irritant - rabbit

**CAS# 64742-82-1**: Acute Oral Toxicity LD50 >5000 mg/kg; Acute Dermal Toxicity LD50 rabbit >3000 mg/kg; Acute inhalation Toxicity LC50 rat >11.6 mg/l; Skin Irritation rabbit – moderate skin irritation.; Eye Irritant – Rabbit.

**CAS# 34590-94-8**: Acute Oral Toxicity (LD50) 5130 mg/kg rat; Acute Dermal Toxicity (LD50) 9500 mg/kg rabbit; May cause damage to the liver, central nervous system. Hazardous in case of ingestion or inhalation. Slight skin irritant. Eye contact can cause corneal irritation. **Dipropylene glycol methyl ether acetate CAS# 88917-22-0**: is toxic to lungs, is very hazardous in case of ingestion, is hazardous in case of skin contact (irritant, permeator), of inhalation.

**Polyacrylate resinCAS# trade secret:** Acute oral toxicity LD50 > 2000mg/kg (rat); Skin irritation – (4h) no skin irritation; Eye irritation – rabbit, slightly irritating. Mutagenicity, Genetic Toxicity in Vitro: Ames – negative.

**Propylene glycol n-butyl ether CAS# 5131-68-8**: Acute Oral Toxicity LD50 – 1900 mg/kg rat; Acute Dermal Toxicity LD50 3100 mg/kg rabbit; Skin Irritation – irritating (rabbit); Eye Irritation rabbit – irritating. Repated Dose Toxicity: 11 d, inhalation NOAEL <600 ppm (rat). Biodegradation >90% exposure time 28 d; Acute Toxicity to Aquatic Vertabraes EC50 . 1000 mg/ml (water flea)

# PRODUCT CODE: 521

Triethanolamine CAS# 102-71-6: Acute Oral Toxicity LD50 4190 mg/kg (rat); Acute Dermal Toxicity LD50 >2000 mg/kg (rabbit); Skin Irritation (rabbit) slightly irritating. Eye Irritation (rabbit) irritating. Repeated Dose Toxicity 28 days, inhalation NOAEL: > 0.5 mg/ml (rat, male/female, 6hrs/day 5 days/week and 13 weeks, dermal: NOAEL: 500mg/kg (rat, male/female, daily)

# SECTION 12: ECOLOGICAL INFORMATION

#### No data for the product itself.

## Component data:

**Component 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0:** This product is anticipated to be harmful to aquatic organisms based on data from similar product.

Polyacrylate resinCAS# trade secret: Acute and Prolonged Toxicity to fish LC50 > 100mg/ml (Zebra Fish) 96 hr;

Triethanolamine CAS# 102-71-6: Biodegradation: Aerobic, 82% exposure time 8 days, inherently biodegradable. Biological Oxygen demand (BOD) 0.5 mg/g; Acute and Prolonged Toxicity to fishLC50 >5000 mg/ml (fathead minnow), 96 h; Acute Toxicity to Aquatic Invertabrates EC50: 216-750 mg/l end point (green algae), 72 hr.

**Propylene glycol n-butyl ether CAS# 5131-68-8:** Boidegradation >90% exposure time 28 d; Acute and Prolonged Toxicity to Fish LC50: 560-1000 mg/l (guppy); Acute Toxicity to Aquatic Invertabrates EC50 >1000 mg/l (water Flea)

## SECTION 13: WASTE DISPOSAL

### WASTE DISPOSAL METHOD:. DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAW.

## SECTION 14: Transport Information

**DOT:** Not Regulated

IMO/IMDG: Not Regulated

### SECTION 15: REGULATORY INFORMATION

#### No data for the product itself.

Component data:

additive NJTSRN 800963-5023: on TSCA List. Not a California Prop 65 chemical

**CAS# 111-76-2:** Section 313 toxic Chemical. Section 311 hazard category – Chronic, fire, On TSCA list. May contain trace components of benzene, toluene, ethylbenzene and NJTSRN 800963-5170 and contains chemicals known to the state of California to cause cancer and birth defects. All components on the DSL Canada

CAS# 104-76-7: - on TSCA list and on Canada DSL

CAS# 64742-82-1 - on TSCA and on Canada DSL

CAS# 34590-94-8:: Is on the Canadian DSL (class B-3 combustable liquid), TSCA list and European inventory of existing commercial chemical substances. Dipropylene glycol monomethyl ether TSCA 4(a) proposed test rules: Dipropylene glycol monomethyl ether TSCA 8(d) and S data reporting: Dipropylene glycol monomethyl ether:effective 4/13/89: Sunset Date: 6/30/98

Dipropylene glycol methyl ether acetate CAS# 88917-22-0: DSCL (EEC) R36 – irritating to skin- risk of serious damage to eyes. WHIMS Class B-3

Polyacrylate resinCAS# trade secret::Listed on TSCA.

Propylene glycol n-butyl ether CAS# 5131-68-8: Listed on TSCA

Triethanolamine CAS# 102-71-6: Listed on TSCA

Reactive diluent CAS# trade secret: On New Jersey, Massachusetts and Pennsylvania right to know lists at > 1%

# SECTION 16: OTHER INFORMATION

DISCLAIMER: The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

N/A = Not Available See Section 1 for date of preparation

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NP521 PART B PRODUCT CODES: 521 B

MANUFACTURER: GlobMarble Inc. STREET ADDRESS: 2201 Neptune Ave CITY, STATE, ZIP: Brooklyn, NY. 11224

INFORMATION PHONE: 347-717-4088 EMERGENCY PHONE: Chemtrec 800-424-9300

#### FAX PHONE: 724-483-9306

PREPARED BY: Harry Jackson

## DATE REVISED: 5/15/15

Chemical Name or Class: isocyanate/solvent mixture

# SECTION 6: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Combustible liquid category 4, Respiratory sensitizer category 1B, Skin corrosion/irritation category 2, skin sensitizer category 1B, Serious eye irritation category 2A, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3

**GHS Label Elements and Precautionary Statements:** Label Elements: Health Hazard Exclamation Mark



# Hazard Statements:

Warning: Combustible liquid Danger: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Warning: Causes skin irritation Warning: May cause an allergic skin reaction Warning: Causes serious eye irritation Warning: Harmful if inhaled Harmful to aquatic life Precautionary statements: P102 Keep out of reach of children. P103 Read label before use P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/sprav P284 Wear respiratory protection. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P271 Use only outdoors or in a well-ventilated area P273 Avoid release to the environment. Response P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL for extinction. P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician. P302 + P352 IF ON SKIN: wash with plenty of soap and water. P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 IF eve irritation persists: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

**REACTIVITY: 1** 

#### HMIS HAZARD CLASSIFICATION HEALTH: 2 FLAMMIBILITY: 2

POTENTIAL HEALTH EFFECTS

PERSONAL PROTECTIVE EQUIPMENT: G

Warning - Combustable Liquid, eve and resoiratory tract irritant. Harmful if inhaled. Possible sensitizer. Reacts with coomon materials including water, alcohols, and amines releasing large amounts of carbon dioxide.

EYES:

CAN CAUSE SEVERE IRRITATION ,REDNESS, TEARING, OR BLURRED VISION AS WELL AS CORNEAL OPACITY AND CONJUNTIVITIS. MAY CAUSE TEMPORARY CORNEAL INJURY. SKIN:

MAY CAUSE IRRITATION, DEFATTING AND DERMATTITIS. MAY CAUSE SENSITIZATION. PERSONS PREVIOUSLY SENSITIZED CAN EXPERIENCE ALLERGIC SKIN REACTION.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITTING, DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. CAN CAUSE CORROSIVE ACTION TO THE MUCOUS MEMBRANES AND DIGESTIVE TRACTS.

INHALATION:

CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, HEADACHE, AND POSSIBLE UNCONSCIOUSNESS. BURNING SENSATION TO MUCOUS MEMBRANES. SHORTNESS OF BREATH AND FLU LIKE SYMPTOMS MAY OCCUR. AS A RESULT OF PREVIOUS EXPOSURES, CERTAIN INDIVIDUALS MAY DEVELOP SENSITIZATION TO DIISOCYANATES, WHICH MAY CAYSE THEM TO REACT TO A LATER EXPOSURE. SYMPTOMS INCLUDE CHEST TIGHTNESS, WHEEZING, COUGH, SHORTNESS OF BREATH, OR ASTHMATIC ATTACK. EXTREME ASTHMATIC ATTACKS CAN BE LIFE THREATENING.

HEALTH HAZARDS (ACUTE AND CHRONIC):

CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATIONS OF VAPOR. OVER-EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES. OVEREXPOSURE CAN POSSIBLY CAUSE ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE, OR EYE DAMAGE. MAY CAUSE ASTHMA OR OTHER RESPIRATORY DISORDERS,

BRONCHITIS, EMPHYSEMA, HYPERACTIVITY, AND ECZEMA.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: **RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS** 

CARCINOGENICITY

OSHA: NO NTP· NO IARC: NO ADDITIONAL CARCINOGENICITY INFORMATION: NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT                               | CAS NO.    | OSHA PEL   | ACGIH TLV  | OSHA STEL | WEIGHT % |  |  |  |  |
|--|------------|------------|------------|-----------|----------|--|--|--|--|
| HEXANE, 1,6-DIISOCYANATE-, HOMOPOLYMER   |            |            |            |           |          |  |  |  |  |
|  | 28182-81-2 | 1 mg/ cu m | NONE       | NONE      | <50      |  |  |  |  |
| BUTOXYL                                  | 4435-53-4  | NONE       | NONE       | NONE      | 20-30    |  |  |  |  |
| ISOPHORONE DIISOCYANATE HOMOPOLYMER      |            |            |            |           |          |  |  |  |  |
|  | 5388-05-0  | NONE       | NONE       | NONE      | <20      |  |  |  |  |
| POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE |            |            |            |           |          |  |  |  |  |
|  | 9046-01-9  | NONE       | NONE       | NONE      | 5-10     |  |  |  |  |
| DIMETHYLCYCLOHEXYLAMINE                  | 98-94-2    | NONE       | NONE       | NONE      | 1-3      |  |  |  |  |
| *ISOPHORONE DIISOCYANATE                 | 4098-71-9  | 0.005 ppm  | 0.0005 ppm | NONE      | <0.50    |  |  |  |  |
| *HEXANE, 1,6-DIISOCYANATO-               | 822-06-0   | NONE       | .005 PPM   | NONE      | <0.50    |  |  |  |  |

(\*) Indicates toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

## SECTION 4: FIRST AID MEASURES

## EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ASSISTANCE. SKIN

FOR EXTREME EXPOSURE USE A SAFETY SHOWER IMMEDIATELY. WASH AFFECTED AREA WITH SOAP AND WATER AND **REMOVE CONTAMINATED CLOTHING PROMPTLY.** 

INGESTION:

DO NOT INDUCE VOMITING KEEP PERSON WARM AND CONSULT A PHYSCIAN IMMEDIATELY. GIVE 1-2 CUPS OF MILK OR WATER TO DRINK.

INHALATION:

REMOVE TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY. OBTAIN MEDICAL ASSISTANCE. ASTHMATIC TYPE SYMPTOMS MAY OCCUR IMMEDIATELY OR BE DELAYED FOR SEVERAL HOURS.

## NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

EYES: STAIN FOR EVIDENCE OF CORNEAL INJURY. IF CORNEA IS BURNED, INSTILL ANTIBIOTIC/STEROID PREPARATION AS NEEDED. WORKPLACE VAPORS COULD PRODUCE REVERSABLE CORNEAL EPITHELIAL EDEMA IMPAIRING VISION. SKIN: THIS COMPOUND IS A SKIN SENSITIZER. TREAT SYMPTOMATICALLY AS FOR CONTACT DERMATITIS OR THERMAL BURN. INGESTION: TREAT SYMPTOMATICALLY, THERE IS NO SPECIFIC ANTIDOTE, INDUCING VOMITING IS CONTRAINDICATED BECAUSE OF THE IRRITATING NATURE OF THE COMPOUND. INHALATION: TREATMENT IS ESSENTIALLY SYMPTOMATIC. AN INDIVIDUAL HAVING A DERMAL OR PULMONARY SENSITIZATION REACTION SHOULD BE REMOVED FROM FURTHER EXPOSURE TO ANY ISOCYANATE.

## **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% by volume) LOWER: N/A FLASH POINT: 168F METHOD USED: **CLOSED CUP** EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES:

ENTER CONFINED AREA WITH FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. DURING A FIRE, HDI VAPORS AND OTHER HIGHLY TOXIC VAPORS MAY BE GENERATED. WATER OR EXTREME HEAT MAY CAUSE CONTAINERS TO EXPLODE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

WATER CONTAMINATION MAY CAUSE THE GENERATION OF CO2 AND CAUSE CONTAINER TO BURST OR EXPLODE. EXTREME HEAT MAY CAUSE CONTAINER TO EXPLODE. HAZARDOUS DECOMPOSITION PRODUCTS EVOLVED IN A FIRE MAY BE IRRITATING OR TOXIC.

# SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR RESPIRATOR AND PROTECTIVE CLOTHING. REMOVE ALL SOURCES OF IGNITIONS. REMOVE EXCESS WITH SPARK PROOF EQUIPMENT, AND THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. SEALING THE CONTAINER MAY LEAD TO RUPTURE AS ANY CONTAMINATED ISIOCYANATE CAN REACT FORMING CO2. CONTAINED AIR RESPIRATOR MAY BE NECESSARY. EVACUATE AND ISOLATE SPILL AREA. VENTILATE CLOSED SPACES BEFORE ENTERING. CLEAN UP SPILL AREA WITH DECONTAMINATING SOLUTION MADE UP OF 50% ISOPROPANOL, 45% WATER AND 5% AMMONIA SOLUTION.

# SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN COOL DRY PLACE, SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING THE TOILET FACILITIES. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CANNOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEROF. WEAR APPROPRIATE SAFETY EQUIPMENT AND RESPIRATOR AT ALL TIMES WHEN VENTILATION IS NOT SUFFICIENT TO CONTROL VAPORS. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 CFR 1910.134). WHEN SPRAYING MATERIAL AVOID EXPOSURE TO ALL MISTS GENERATED BY USING AIR SUPPLIED RESPIRATOR. AVOID CONTACT WITH WATER.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** 

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER-EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. ENGINEERING OR ADMINISTRATIVE MEASURES SHOULD BE TAKEN TO REDUCE THE RISK & EXPOSURE. USE A POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR WHEN EXCEEDING TLV'S OR IF HDI MONOMER CONCENTRATIONS EXCEED ACCEPTABLE LIMITS OR WHEN SPRAYING MATERIAL.

VENTILATION:

EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORN CONCENTRATIONS OF HDI BELOW THEIR TLV AND MGL MAXIMUM. REFERS TO PATTY'S INDUSTRIAL HYGIENE & TOXICOLOGY- VOLUME 1 (3<sup>RD</sup> EDITION) CHAPTER 17 AND VOLUME III (1<sup>ST</sup> EDITION) CHAPTER 3 FOR DETAILS.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OF RUBBER.

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS. DO NOT WEAR CONTACT LENSES WHEN USING THIS PRODUCT.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

CLEAN BODY COVERING CLOTHING AS WELL AS APRON FOOTWEAR OR OTHER EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL.

WORK HYGIENIC PRACTICES:

OBSERVE GENERAL GOOD HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: PALE YELLOW LIQUID WITH NEGLIGIBLE ODOR BOILING POINT OR RANGE: >212F VAPOR DENSITY (AIR = 1): NOT AVAILABLE SPECIFIC GRAVITY (H2O = 1): 1.08 FLASH POINT: 168F EVAPORATION RATE: N/A SOLUBILITY IN WATER: NEGLIGIBLE

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A

Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

# SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL HANDLING AND STORAGE CONDITIONS. CONDITIONS TO AVOID (STABILITY): AVOID EXCESSIVE HEAT OR OPEN FLAMES AS WELL AS ALL SOURCES OF IGNITIONS SUCH AS SPARKS, HEATERS, STATIC DISCHARGES, ETC. INCOMPATIBILITY (MATERIAL TO AVOID): AVOID WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS, AND SURFACE ACTIVE COMPOUNDS. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: MAY FORM TOXIC CHEMICALS, CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, HCN AND HDI. HAZARDOUS POLYMERIZATION: MOISTURE OR MATERIALS THAT REACT WITH ISOCYANATES AND TEMPERATURES ABOVE 400 DEGREES F MAY CAUSE POLYMERIZATION.

### SECTION 11: TOXICOLOGICAL INFORMATION

Homopolymer of hexamethylene - Acute Oral Toxicity: LD50 > 5000 mg/kg (rat) Acute inhalation Toxicity: No data available Acute Dermal Toxicity: No data available 1,6-hexamethylene diisocanate: Skin Irritation: Skin – sensitization, guinea pig. Sensitizing Homopolymer of hexamethylene diisocyanate Skin irritation rabbit, irritating Homopolymer of hexamethylene diisocyanate: Eye Irritation: rabbit, Draize, slightly irritating Acute respiratory irritation: lung irritation (qualitative), human. Slightly irritating to moderating irritating. Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be "probable" or "suspected" human carcinogens.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information: No data available Chemical fate information: No data available

## SECTION 13: WASTE DISPOSAL

## WASTE DISPOSAL METHOD: DISPOSE OF MATERIAL AS A HAZARDOUS WASTE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

# SECTION 14: Transport Information

**DOT:** Not regulated

IMO/IMDG: NA1993, COMBUSTIBLE LIQUID N.O.S. (CONTAINS Butoxyl), 3, PG III

# SECTION 15: REGULATORY INFORMATION

**OSHA Hazcom standard Rating:** Fire Hazard; Acute health hazard and chronic health hazard.

All ingredients are on the TSCA list and Canadian DSL inventory

SARA Extremely Hazardous Substances (EHS) CERCLA Hazardous Substances: Isophorone diisocyanate (Sarah EHS TPQ) 500 lbs. Hexane 1,6-diisocyanateo- CERCLA/SARA RQ 100 lbs.

This product may contain trace amounts of the following components that are regulated under California Proposition 65: Dioxane (cancer list), Acetaldehyde (Cancer list), Ethylene oxide (Cancer list, Reprod. List)

# SECTION 16: OTHER INFORMATION

DISCLAIMER: THE INFORMATION HERE IN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.

N/A = Not Available See Section 1 for date of preparation