

## Section 1-Product and company identification

ENGINEERS  
CHOICE  
HRCSA/AHTD  
SPEC.-1145

Product Name: HRCSA Product Code: 12-SERIES

**BIPACCO COATINGS LLC.**  
**PH:1-(573)-885-2506**  
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**CHEMTREC EMERGENCY**  
**1 (800) 424-9300**  
**24 HOURS**

## SECTION 2 - HAZARD(S) IDENTIFICATION

### GHS Ratings:

|                   |    |   |
|-------------------|----|---|
| Flammable liquid  | 3  | Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)   |
| Skin corrosive    | 2  | Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation  |
| Eye corrosive     | 2A | Eye irritant: Subcategory 2A, Reversible in 21 days   |
| Mutagen           | 1B | Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity |
| Carcinogen        | 1B | Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity   |
| Aspiration hazard | 1  | Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity $\leq 20.5 \text{ mm}^2/\text{s}$ at $40^{\circ}\text{C}$ .  |

### GHS Hazards

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour           |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation                       |
| H319 | Causes serious eye irritation                |
| H340 | May cause genetic defects                    |
| H350 | May cause cancer                             |

### GHS Precautions

|      |  |
|------|--|
| P201 | Obtain special instructions before use                                   |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat/sparks/open flames/hot surfaces - No smoking         |

|                |   |
|----------------|---|
| P233           | Keep container tightly closed   |
| P240           | Ground/bond container and receiving equipment   |
| P241           | Use explosion-proof electrical/ventilating/light/.../equipment  |
| P242           | Use only non-sparking tools   |
| P243           | Take precautionary measures against static discharge  |
| P264           | Wash ... thoroughly after handling  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection   |
| P281           | Use personal protective equipment as required   |
| P321           | Specific treatment (see ... on this label)  |
| P331           | Do NOT induce vomiting  |
| P362           | Take off contaminated clothing and wash before reuse  |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  |
| P302+P352      | IF ON SKIN: Wash with soap and water  |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing . Rinse skin with water/shower                        |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P308+P313      | IF exposed or concerned: Get medical advice/attention   |
| P332+P313      | If skin irritation occurs: Get medical advice/attention   |
| P337+P313      | If eye irritation persists, get medical advice/attention  |
| P370+P378      | In case of fire: Use ... for extinction   |
| P405           | Store locked up   |
| P403+P235      | Store in a well ventilated place. Keep cool   |
| P501           | Dispose of contents/container to ...  |

**Signal Word: Danger**



### SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

| Chemical Name             | CAS number    | Weight Concentration |
|---------------------------|---------------|----------------------|
| Polymer Solids            | Proprietary-2 | 60.00%               |
| VM & P NAPHTHA            | 8032-32-4     | 20.00%               |
| MINERAL SPIRITS REGULAR   | 64742-88-7    | 10.00%               |
| Z-PLEX 250 ZINC PHOSPHATE | 7779-90-0     | 10.00%               |

### SECTION 4 - FIRST AID MEASURES

**INHALATION:** Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**EYE CONTACT:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**SKIN CONTACT:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**NOTE TO PHYSICIAN:** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

**SECTION - 5 FIRE-FIGHTING MEASURES**

Flash Point: 12 C (54 F)

LEL:

UEL:

**Suitable Extinguishing Media:** NFPA Class B extinguishers ( Carbon Dioxide or foam) for Class I C liquid fires. Alcohol resistant foam, CO2, powders, water spray.

**Inappropriate Extinguishing Media:** Straight Streams of Water.

**Unusual Fire Hazards:** Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

**Hazardous Combustion Products:** Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

**Special Fire Fighting Procedures:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spacesw, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Fire Fighting Equipment/Instructions:** Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self-contained breathing apparatus.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**NOTIFICATION PROCEDURES:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of

this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800) 424-8802.

**PROTECTIVE MEASURES:** Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: half or full-face or full-face respirator with filter(s) for organic vapor and, when applicable, H<sub>2</sub>S, or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydrocarbons are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

#### **SPILL MANAGEMENT**

**Land Spill:** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed with material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. If the Flash Point exceeds the Ambient Temperature by 10 degrees C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the Flash Point does not exceed the Ambient Air Temperature by at least 10 degrees celsius, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.

#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION - 7 HANDLING AND STORAGE

**HANDLING:** Avoid breathing mists or vapors. Avoid all personal contact. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation.

Do not enter storage areas or confined spaces unless adequately ventilated. Prevent small spills and leakage to avoid slip hazard.

Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Avoid spontaneous combustion of contaminated rags or other organic materials. Empty containers may retain hazardous properties and can be dangerous.

**STORAGE:** Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready to use. Avoid all possible sources of ignition (spark or flame). Keep container tightly closed. Keep in a cool, well-ventilated place. Take precautionary measures against electrostatic discharges. Flammable materials should be stored in a separate safety storage cabinet or room. All efforts should be made to prevent any leaks or spills. Storage tanks containing should be engineered to prevent contact with water resources, as this material could contaminate the water resources. Surface spills can reach groundwater through porous soil or cracked surfaces. The storage tanks should be monitored regularly for leaks. Where spills or leaks are possible, a comprehensive response plan should be developed and implemented.

| SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION |                      |                       |   |
|--|----------------------|-----------------------|---|
| Chemical Name / CAS No                             | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limit                                      |
| Polymer Solids<br>Proprietary-2                    | Not Established      | Not Established       | Not Established   |
| VM & P NAPHTHA<br>8032-32-4                        | Not Established      | Not Established       | NIOSH: 350 mg/m3<br>TWA<br>1800 mg/m3 Ceiling<br>(15 min) |
| MINERAL SPIRITS<br>REGULAR<br>64742-88-7           | Not Established      | Not Established       | Not Established   |
| Z-PLEX 250 ZINC<br>PHOSPHATE<br>7779-90-0          | Not Established      | Not Established       | Not Established   |

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protective Equipment (PPE)**

**Respiratory Protection:** Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Eye/Face Protection:** Safety glasses with side shields are recommended as minimum protection in industrial setting.

**Hand Protection:** Butyl rubber gloves.

**Body:** Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Other Protective Equipment:** Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colors Vary, Depending on Customers Request.

**Odor:** Hydrocarbon

**Odor Threshold:** No Information available

**Physical State:** Liquid

**pH:** Not Available

**Flash Point:** (Tagliabue Closed Cup) 54 Fahrenheit.

**Auto-ignition Temperature:** No information available

**Boiling point/boiling range:** > 302 Fahrenheit

**Flammability Limit in Air:** No information available

**Lower Explosive Limit:** No information available

**Upper Explosive Limit:** No information available

**Specific Gravity:** (H<sub>2</sub>O=1): 1.118-1.168

**Solubility in H<sub>2</sub>O :** 0.09/68 Fahrenheit

**Evaporation Rate:** Is slower than Ether.

**Vapor Pressure:** No information available

**Vapor Density:** Is heavier than air.

**Explosive properties:** No information available

**Oxidizing Properties:** No information available

**Decomposition temperature:** No information available

## SECTION 10- REACTIVITY

**Stability:** This material is stable under normal conditions.

STABLE

**Conditions to Avoid:** Flames, sparks, electrostatic discharge, heat and other ignition sources.

**Incompatible Materials:** This product reacts with strong acid, strong bases, and oxidizing agents.

**Hazardous Decomposition:** Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbon.

**Hazardous Reactions:** This product will not undergo polymerization.

Hazardous polymerization will not occur.

## SECTION 11 - TOXICOLOGICAL PROPERTIES

### Mixture Toxicity

#### Component Toxicity

|            |  |
|------------|--|
| 8032-32-4  | VM & P NAPHTHA<br>Inhalation LC50: 3,400 ppm (Rat)           |
| 64742-88-7 | MINERAL SPIRITS REGULAR<br>Dermal LD50: 3,000 mg/kg (Rabbit) |

**Target Organs:** Nervous system, respiratory system. From the animal and human toxicology data, xylenes can be characterized as neurotoxic chemicals at moderate to high doses inducing symptoms in humans of dizziness, headache, nausea, and neuromuscular effects, speech impairment, and amnesia at high doses. Aspiration into the lungs of even a small amount may cause severe injury, since its low viscosity and surface tension will cause it to spread over a large surface of pulmonary tissue. Aspiration into the lungs of even a small amount may cause severe injury, since its low viscosity and surface tension will cause it to spread over a large surface of pulmonary tissue. Long-term overexposure to toluene has been associated with impaired color vision. Also, long-term overexposure to toluene in occupational environments has been associated with hearing damage. Skin, respiratory system, Central nervous system, Heart, Blood, kidneys, lungs, liver, mucous membrane, brain, eyes, lens, or cornea. Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

**Eyes:** Irritation from vapors. Splash accidents have produced transient, superficial injury to the eye.

**Skin:** May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Inhalation:** Central nervous system depression, narcosis, respiratory tract irritation and pulmonary edema. Severe exposure may cause death.

**Ingestion:** Aspiration hazard if swallowed. Can enter lungs and cause damage. May be fatal if swallowed. Central nervous system depression, a burning sensation in the oropharynx and stomach. Vomiting.

**Potential Chronic Health Effects:** Effects of chronic exposure to xylene are similar to those of acute exposure, particularly central nervous system effects (based on animal studies).

**Overexposure/Signs/Symptoms:** Headache, tremors, apprehension, memory loss, weakness, dizziness, loss of appetite, nausea, ringing in the ears, irritability, thirst, anemia, mucosal bleeding, enlarged liver, and hyperplasia are reported when chronic inhalation of xylenes has occurred. Repeated contact with the skin can cause defatting dermatitis. Reversible eye damage, including vacuoles in the cornea and conjunctiva, has occurred with chronic xylene exposure.

### Routes of Entry:

**Exposure to this material may effect the following organs:**

**Carcinogenic Effects:** 2B-Group 2B: Possibly carcinogenic to humans. (Ethylbenzene)

**Mutagenic Effects:** Not Available

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** Not Available

**Target Organs:** Central nervous system depression, Nausea, Headache, Vomiting, Ataxia, Tumors.

| <u>CAS Number</u> | <u>Description</u> | <u>% Weight</u> | <u>Carcinogen Rating</u>                 |
|-------------------|--------------------|-----------------|--|
| 8032-32-4         | VM & P NAPHTHA     | 20.00           | VM & P NAPHTHA: EU REACH:<br>Present (P) |

## SECTION 12 - ECOLOGICAL INFORMATION

This information given is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** Material--Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Mobility:** Material--Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

### Persistence And Degradability

**Biodegradation:** Material--Expected to be readily biodegradable.

**Hydrolysis:** Material--Transformation due to hydrolysis not expected to be significant.

**Photolysis:** Material--Transformation due to hydrolysis not expected to be significant.

**Atmospheric Oxidation:** Material--Expected to degrade rapidly in air.

### Component Ecotoxicity

|                         |  |
|-------------------------|--|
| VM & P NAPHTHA          | 72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L  |
| MINERAL SPIRITS REGULAR | 96 Hr LC50 Pimephales promelas: 800 mg/L [static]<br>48 Hr EC50 Daphnia magna: >100 mg/L<br>96 Hr EC50 Pseudokirchneriella subcapitata: 450 mg/L |

## SECTION-13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**Disposal Recommendations:** Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of combustion products.

**Regulatory Disposal Information:** RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: IGNITABILITY.

**Empty Container Warning:** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal



through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

|  |
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| <b>SECTION -14 TRANSPORT INFORMATION</b> |
|--|

**DOT**

**Proper Shipping Name:** Paint  
**Hazard Class & Division:** Class 3  
**ID Number:** UN1263  
**Packing Group:** II  
**Marine Pollutant:** Yes  
**Product RQ:** Not Available  
**ERG Number:** Not Available  
**Label(s):** Flammable Liquid  
**Transport Document Name:** UN1263

**TDG**

**Proper Shipping Name:** Paint  
**Hazard Class & Division:** Class 3  
**ID Number:** UN1263  
**Packing Group:** II  
**Marine Pollutant:** Yes

**IMDG**

**Proper Shipping Name:**  
**Hazard Class & Division:** Class 3  
**ID Number:** UN1263  
**Packing Group:** II  
**Marine Pollutant:** Yes  
**Product RQ:** Not Available  
**ERG Number:** Not Available  
**Label(s):** Flammable Liquid  
**Transport Document Name:** UN1263

**IATA**

**Proper Shipping Name:** Paint  
**Hazard Class & Division:** Class 3  
**ID Number:** UN1263  
**Packing Group:** II  
**Marine Pollutant:** Yes  
**Product RQ:** Not Available  
**ERG Number:** Not Available  
**Label(s):** Flammable Liquid  
**Transport Document Name:** UN1263

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
|---------------|-----------------------------|------------------|----------------------|---------------------|

|  |
|--|
| <b>SECTION - 15 REGULATORY INFORMATION</b> |
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**TSCA Inventory** This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

**SARA 302/304** The superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires

facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355.

**CERCLA** the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (ERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Xylene [CAS No.: 1330-20-7] RQ=100 lbs (45.3kg), ethylbenzene [CAS No.: 100-41-4] RQ= 1,000 lbs.

**SARA 311/312 Hazard:** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard.

**SARA 313:** Xylene, ethylbenzene, Toluene.

**California Prop 65:** Ethylbenzene cancer toxicity. Toluene developmental toxicity.

### Additional Regulatory

#### Remarks

Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains Toluene which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Toluene!**

**Harmful or fatal if swallowed! Call Physician Immediately. Vapor Harmful! KEEP OUT OF REACH OF CHILDREN!**

| <u>Country</u> | <u>Regulation</u> | <u>All Components Listed</u> |
|----------------|-------------------|------------------------------|
|----------------|-------------------|------------------------------|

#### EU Risk Phrases

R10: Flammable  
R20: Harmful by inhalation  
R22: Harmful if swallowed  
R36: Irritating to eyes  
R37: Irritating to respiratory system  
R38: Irritating to skin  
R51: Toxic to aquatic organisms  
R66: Repeated exposure may cause skin dryness or cracking  
R36/38: Irritating to eyes and skin  
R37/38: Irritating to respiratory system and skin

#### Safety Phrase

S21: When using do not smoke  
S24: Avoid contact with skin  
S25: Avoid contact with eyes  
S28: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)  
S29: Do not empty into drains  
S36: Wear suitable protective clothing  
S37: Wear suitable gloves  
S38: In case of insufficient ventilation wear suitable respiratory equipment  
S39: Wear eye/face protection  
S42: During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer)  
S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

S64: If swallowed, rinse mouth with water (only if the person is conscious)  
S24/25: Avoid contact with skin and eyes  
S29/35: Do not empty into drains; dispose of this material and its container in a safe way

**SECTION 16/ OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.**

**Prepared By:** BIPACCO COATINGS LLC  
Phone Number: 573-885-2506

**Revision Date:** 03/20/2017

**Revision Summary:** This date sheet contains changes from the previous version in section(s):  
2,3,5,6,7,8,9,10,11,12,13,14,15,16

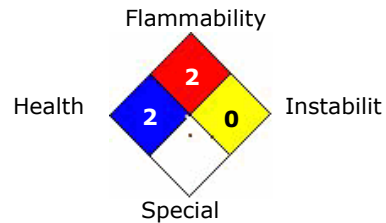
**Formar date:** 07/20/2015

**Hazardous Material Information System (**

|                     |   |   |
|---------------------|---|---|
| HEALTH              | * | 2 |
| FLAMMABILITY        |   | 3 |
| PHYSICAL HAZARD     |   | 0 |
| PERSONAL PROTECTION |   | H |

**HMIS & NFPA Hazard Rating Legend**  
\* = Chronic Health Hazard  
**0 = INSIGNIFICANT**  
**1 = SLIGHT**  
**2 = MODERATE**  
**3 = HIGH**

**National Fire Protection Association (NFPA**



Revision Date: 03/20/2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Reviewer Revision

Date Prepared: 8/17/2017