



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: JOINT FILL PART A
PRODUCT CODES: JOINT FILL A

MANUFACTURER: Penntek Industrial Coatings
STREET ADDRESS: 7850 Lakeville BLVD
CITY, STATE, ZIP: Lakeville, MN 55044

INFORMATION PHONE: 844-290-9364
EMERGENCY PHONE: Infotrac 1-800-535-5035

PREPARED BY: Kyle Baynes

DATE REVISED: 1/2/15

Chemical Name or Class: Caprolactum mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Acute toxicity (Inhalation) Category 4, Acute toxicity (Oral) Category 4, Specific target organ toxicity - single exposure Category 3, Serious eye damage/irritation category 2B, Skin Corrosion/Irritation category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark



Hazard Statements:

Warning: May be Harmful if swallowed

Warning: Harmful if inhaled..

Warning: May cause Respiratory irritation

Warning: Causes eye irritation

Warning: Causes mild skin irritation.

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response

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.

P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P330 Rinse mouth.

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 eye irritation persists: Get medical advice/attention.

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.

Storage:

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

Other non-classifiable potential hazards:

Carcinogen category 2

HMIS HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **PERSONAL PROTECTIVE EQUIPMENT:** G

POTENTIAL HEALTH EFFECTS

EYES:

HIGH VAPOR CONCENTRATION CAN CAUSE SEVERE IRRITATION TO THE EYES, NOSE OR THROAT.

SKIN:

CAN CAUSE IRRITATION TO SKIN.



INGESTION:

LIQUID CAN CAUSE IRRITATION TO THE MUCOUS MEMBRANES IF SWALLOWED.

INHALATION:

HIGH VAPOR CONCENTRATION CAN CAUSE SEVERE IRRITATION TO THE RESPIRATORY TRACT.

HEALTH HAZARDS (ACUTE AND CHRONIC):

PROLONGED OR REPEATED EXPOSURE MAY CAUSE ASTHMA AND SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: yes

ADDITIONAL CARCINOGENICITY INFORMATION:

Some colors may contain carbon black - Explanation Of Carcinogenicity: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
CASTOR OIL	8001-79-4	NONE	NONE	NONE	10-30
2-OXEPANONE, POLYMER WITH 2,2'-	-OXYBIS [ETHANOL]				
	36890-68-3	NONE	NONE	NONE	10-30
2-OXYPANONE, 2-ETHYL-2-(HYDROXYMETHYL)	-1,3-PROPANE				
	37625-56-2	NONE	NONE	NONE	15-40
Precipitated Silica	112926-00-8	NONE	80mg/m3	NONE	0.1-1
Aluminum Oxide Non-fibrous)	1344-28-1	5MG/M3	10MG/M3	NONE	1-5
Sodium oxide	1313-59-3	NONE	NONE	NONE	1-5
Magnesium Oxide	1309-48-4	15mg/m3	10mg/m3	NONE	1-5
Siloxanes and silicones, di-me reactions products with silica (non-hazardous)					
	67762-90-7	none	none	none	0.1-1
siloxanes and silicones, di-methyl (non-hazardous)					
	63148-62-9	none	none	none	0.1-1
Alkyl Quaternary Ammonium Clay	Proprietary	NONE	NONE	NONE	1-5
Methyl N-Amyl Ketone	110-43-0	100 ppm	50 ppm	none	1-5
Dibutyltin Dilurate	77-58-7	0.1mg / m3	0.1mg / m3	0.1mg / m3	0.1-1
Colors may contain:					
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	1-5
*CARBON	1333-86-4	3.5PPM	3.4PPM	NONE	<1.0

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

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: FIRST AID MEASURES

EYES:

IMMEDIATELY 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 IMMEDIATELY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS.

INGESTION:

DO NOT INDUCE VOMITTING. DILUTE BY GIVING WATER TO DRINK IF VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE VICTIM TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: 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:

NIOSH APPROVED RESPIRATOR REQUIRED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. FOR EMERGENCIES A SELF-CONTAINED BREATHING APPARATUS OR A FULL FACE RESPIRATOR IS RECOMMENDED.

VENTILATION:

AVOID BREATHING VAPORS. VENTILATION 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 OCCUPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: MEDIUM VISCOSITY CLEAR OR COLORED LIQUID – NEGLIGIBLE ODOR

BOILING POINT OR RANGE: N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.1

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: NEGLIGIBLE

Odor Threshold: 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.

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:

Component CASTOR OIL CAS# 8001-79-4: Draize test, rabbit, eye: 500 mg Mild; Draize test, rabbit, skin: 100 mg/24H Severe;

Component 2-OXEPANONE, POLYMER WITH 2,2' -OXYBIS [ETHANOL] CAS# 36890-68-3: Oral LD50 (rat) > 2000 mg/kg.

Component 2-OXYPANONE, 2-ETHYL-2-(HYDROXYMETHYL) -1,3-PROPANE CAS# 37625-56-2: Acute oral toxicity - Oral route, LD 50, > 2000 mg/kg. Acute dermal irritation/corrosion - Rabbit, Non irritant (eyes), - Rabbit, Non irritant (skin), Skin irritation -Negligible. Eye irritation Negligible

Component Titanium Dioxide: Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

Component CAS# 112926-00-8: LD50 (rat >5000 mg/kg, LD50 dermal (rat) >2000 mg/kg

Component Aluminum Oxide CAS# 1334-28-1: Special Remarks on Chronic Effects on Humans: May cause cancer (tumorigenic) according to animal data. No human data found. Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Nuisance Dust. Dust may cause mechanical eye irritation. Inhalation: Nuisance Dust. Material is irritating to mucous membranes and upper respiratory tract. May cause lung injury. Ingestion: May be harmful if swallowed. Ingestion of large amounts may cause gastrointestinal tract irritation. It is expected to be a low hazard for normal industrial handling.

Component CAS# 112926-00-8, Component Aluminum Oxide CAS# 1334-28-1, Sodium oxide CAS# 1313-59-3 and Magnesium Oxide CAS# 1309-48-4: Components Acute oral toxicity LD50 is greater than 5g/kg (rat). The components are an ocular irritant by FHSA standards. When the components were administered by stomach intubation to male rats, the animals survived single massive doses equivalent to 32.0 gram per kilogram of body weight with good weight gains. There were no significant micropathological findings on tissue taken fourteen days after dosing.

Component Carbon: IARC lists carbon as a possible human carcinogen Category 2B. LD50 - Intravenous, mouse = 440 mg/kg

Component Alkyl Quaternary Ammonium Clay CAS# Proprietary: Short term exposure to dust can cause minor irritation or shortness of breath. Eye contact may cause irritation to the eyes due to physical abrasion. Component may cause respiratory disorders or act as an allergen for persons who are strongly allergic to quaternary amines.

Component CAS# 110-43-0: Oral LD 50 (rat): 1600 mg/kg; Oral LD50 (mouse) 730 mg/kg; Inhalation LC50 (rat) 2000-4000 ppm, 4 hr. Dermal LD50 (rabbit) 10206 mg/kg; Dermal LD50 (guinea pig) >16200 mg/kg; Skin irritation (Rabbit) - slight to moderate; Eye irritation (rabbit) slight; Skin sensitization (human) none

Component Dibutyltin Dilurate CAS# 77-58-7: ACUTE ORAL TOX (LD50,RAT) 3200.00 MG/KG. ACUTE DERMAL TOX (LD50,RABBIT) >2000 MG/KG (NO DEATHS). ACUTE INHAL TOX (LC50, RAT) >8.10 MG/L/1 HR. AMES TEST: NEG (ACTIVATED & NONACTIVATED) INDUST CHEMS SUC H AS THIS MATL W/ACUTE TOX VALUES SHOWN & WHOSE VAPS/MISTS ARE NOT LIKELY TO BE ENCOUNTERED BY HUMANS WHEN USED IN ANY REASONABLY

FORESEEABLE MANNER WOULD NOT REQ TOXIC LBL ACCORD TO U.S. DOMESTIC & INTERNATIONAL TRANSPORT REQS. IRRIT EFTS DAT: SEV IRRITANT TO EYES OF RABBIT. MOD IRRITANT TO SKIN OF RABBIT.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component 2-OXEPANONE, POLYMER WITH 2,2' -OXYBIS [ETHANOL] CAS# 36890-68-3: Fish LC50, 96 hours, 80 mg/l. fish LC50, 96 hours, 39 mg/l. Abiotic degradation: Water, Hydrolysis, t+/- 50 days (calculated value, QSAR) degradation product 6-hydroxycaproic acid.

Component 2-OXYPANONE, 2-ETHYL-2-(HYDROXYMETHYL) -1,3-PROPANE CAS# 37625-56-2: Acute toxicity: Fishes, Brachydanio rerio, LC 50, 96h, 150 mg/l. Bacteria, Achromobacter sp., NOEC, 16 h, 670 mg/l. Biodegradation - test ready biodegradability/modified STURM, > 60 %, 7 day (s) Result: readily biodegradable. Remarks - Harmful for aquatic organisms. - Hazard for aquatic environment is limited due to product properties:

- . ready biodegradability.

Component Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

Component CAS# 112926-00-8: Ecotoxicity: EC50 (fish) .10000 mg/l (daphnia >10000 mg/l

Component Aluminum Oxide CAS# 1334-28-1: Products of Biodegradation:Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Component CAS# 112926-00-8, Component Aluminum Oxide CAS# 1334-28-1, Sodium oxide CAS# 1313-59-3 and Magnesium OxideCAS# 1309-48-4: Food Chain Concentration Potential: non expected for components.

Component CAS# 110-43-0: BOD-5: 1770 mg/kg; BOD-20: 2000 mg/kg; COD: 2420 mg/kg. Acute Aquatic Effects: 96 hr LC50 (fathead minnow) 131 mg/l and 48 hr EC50 (daphnia) >90 mg/l (highest concentration tested)

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:

Component CASTOR OIL CAS# 8001-79-4: component is on the TSCA list and Canada DSL

Component 2-OXEPANONE, POLYMER WITH 2,2'-OXYBIS [ETHANOL] CAS# 36890-68-3: Component is on the TSCA list and Canada DSL.

Component 2-OXYPANONE, 2-ETHYL-2-(HYDROXYMETHYL) -1,3-PROPANE CAS# 37625-56-2: TSCA Inventory 8(b): Yes. National Regulations (Canada): Canadian NSN Registration: DSL # 11400. WHMIS Classification: Not Listed. National Regulations (Europe): National Regulations (Europe) EINECS / ELINCS #: EINECS: Not applicable

Component Titanium Dioxide: Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated chemical List.

Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN).

Component CAS# 112926-00-8: Is not classified as dangerous. National Chemical Inventory listings include – AICS, DSL, IECSC, EINECS, ENCS, KECI, NZLOC, PICCS, TSCA,

Component Aluminum Oxide CAS# 1334-28-1: Federal and State Regulations: Illinois toxic substances disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous substances: Aluminum oxide Minnesota: Aluminum oxide Massachusetts RTK: Aluminum oxide New Jersey: Aluminum oxide New Jersey spill list: Aluminum oxide California Director's list of Hazardous Substances: Aluminum oxide TSCA 8(b) inventory: Aluminum oxide

SARA 313 toxic chemical notification and release reporting: Aluminum oxide Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately

Sodium oxide CAS# 1313-59-3: Component is on the TSCA list.

Magnesium Oxide CAS# 1309-48-4: Component is on the TSCA list.

Component CAS# 112926-00-8, Component Aluminum Oxide CAS# 1334-28-1, Sodium oxide CAS# 1313-59-3 and Magnesium Oxide CAS# 1309-48-4: Components are not classified as a controlled product under regulations pursuant to the federal hazardous product act (e.g. WHMIS)

Component Carbon: Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada

Component Siloxanes and silicones, di-me reactions products with silica: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component siloxanes and silicones, di-methyl: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component Alkyl Quaternary Ammonium Clay CAS# Proprietary: component is on the TSCA, European inventory, Canada DSL, and Australian AICS lists. This component is not known to be a hazardous chemical as defined by OSHA Hazard Communication Standard 29 CFR 1910.1200

Component CAS# 110-43-0: On DSL and TSCA, EINECS, AICS, MITI and ECL lists.

Component Dibutyltin Dilurate CAS# 77-58-7: Sara Title III Information: TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL COMPONENTS ARE INCL IN EPA TOXIC SUBSTANCES CTL ACT (TSCA) CHEM SUBSTANCE INVENTORY. OSHA HAZARD COMMUNICATION STD (29CFR1910.1200) HAZARD CLASS(ES): IRRITANT.KIDNEY TOXIN. EPA SARA TITLE III SECTION 312 (40CFR370) HAZARD CLASS. IMMEDIATE HAZARD. EPA SARA TITLE III 313 (40CFR372) TOXIC CHEMICALS "DE MINIMIS" LEVEL ARE NONE. Federal Regulatory Information: CANADA DSL-INCL ON INVENTORY. HAZARD CLASSIFICATION-CLASS D DIVISION 2B..(EEC). EINECS /ELINCS MASTER INVENTORY-INCLUDED ON INVENTORY. EEC SYMBOL-HARMFUL (XN). EEC RISK (R) PHRASES-IRRITATING TO EYES & SKIN (R36/38). HARMFUL BY INHAL (R20). EEC SFTY PHRASES-IN CASE OF CONT W/EYES, RINSE IMMEDIATE W/PLENTY OF WATER & SEEK MED ADVICE (S26). AUSTRALIA-AICS-INCLUDED ON INVENTORY. State Regulatory Information: STATE REGS: PROPOSITION 65 SUBSTANCES (COMPONENT(S) KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY & SUBJECT TO WARNING & DISCHARGE REQUIREMENTS UNDER "SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986"):NONE.

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