



SAFETY DATA SHEET

FILE NO.: 005 (Ennis Plant) SDS REV.DATE: 5/20/15

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: USP 8000 Series

GENERAL USES: Asphalt Additives

MANUFACTURER: U.S. Polyco, Inc. (Corporate) U.S. Polyco, Inc. (Ennis Plant)
 ADDRESS: 175 Salomon Circle 3901 South I 45
 Sparks, NV 89434 Ennis, TX 75119

EMERGENCY PHONE: 972-875-9300
 AFTER BUSINESS HOURS: Chemtrec 1(800) 424-9300
 OTHER CALLS: 775-626-8818
 FAX PHONE: 972-875-4114

CHEMICAL NAME: Polymer Modified Asphalts/ Polymer Modified Bitumen
 CHEMICAL FAMILY: Petroleum Hydrocarbon

PREPARED BY: Jared Miguez

SECTION 2: HAZARD IDENTIFICATION

WARNING: Hydrocarbon odor and can burn in a fire.
 Normally transported at high temperatures.
 Asphalt based products may emit Vapors when heated in excess of ~ 300F.
 Molten asphalt can cause thermal burns to eyes and skin.
 Trace levels of hydrogen sulfide (H2S) can concentrate in closed/non-ventilated tanks.
 (Hydrogen sulfide(H2S) is toxic in high concentrations.)

	<u>NFPA 704</u>	<u>NPCA-HMIS</u>	<u>KEY</u>
HEALTH:	1	1	0= MINIMAL
FIRE:	1	1	1=SLIGHT
REACTIVITY:	0	0	2=MODERATE
SPECIFIC HAZARD:	NONE	N/A	3=SERIOUS
PROTECTION INDEX:	N/A	B	4=SEVERE

POTENTIAL HEALTH EFFECTS

EYES: *Extreme temperatures* can cause eye irritation and burns
 SKIN: Can cause severe burns to skin
 INGESTION: Not likely under normal use
 INHALATION: Irritation to nose, throat ,and respiratory system during prolonged exposure when heated to ~ 300 F +.

IARC CLASSIFICATION

2B

SECTION 3: CHEMICAL COMPOSITION

<u>HAZARDOUS INGREDIENT:</u>	<u>CAS NO.</u>	<u>% VOL</u>	<u>Hazard Class /Risk</u>
Asphalt (Petroleum hydrocarbon)	8052-42-4	92-98	N/A
Styrene-butadiene block copolymer	9003-55-8	2-8	N/A

Ingredient	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>NIOSH REL</u>	
	TWA	STEL	TWA	STEL	TWA	STEL
Asphalt	.5 mg./m3	N.E.	.5 mg./m3	N.E.	.5 mg./m3	N.E.
Styrene-butadiene block copolymer	N.E.	N.E.	10 mg./m3	N.E.	N.E.	N.E.

N.E. = None Established

Hazard class and risk: This column is completed for ingredients which are classified as hazardous under EU Directive(67/548/EEC, as amended) and are present in sufficient concentration to make the over all substance hazardous. In all situations the column will be completed as "Not Applicable"

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SECTION 4: FIRST AID MEASURES

EYES: Flush eyes generously with water if exposed to fumes or cold asphalt .Seek medical attention if irritation persists.

SKIN: DO NOT attempt to remove any molten asphalt that has splashed on the skin and or eyes. Cool the affected area with water , saline solution , or ice packs until the asphalt hardens. DO NOT REMOVE ASPHALT FROM SKIN OR BANDAGE BURN. Seek medical attention.

INGESTION: Not a likely occurrence

INHALATION: Get victim to fresh air If breathing is labored, administer oxygen. Seek medical attention. FUMES- Must not exceed 5 ppm TWA in a 8 hr period.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: >500°F
METHOD USED: COC

AUTOIGNITION TEMPERATURE: >700°F

EXTINGUISHING MEDIA

ACCORDING TO NFPA GUIDE:

Water spray, dry chemical, foam, or carbon dioxide. (Water or spray maycause frothing of product.)

SPECIAL FIRE FIGHTING PROCEDURES:

Do not use water directly on burning product. Use water stream and /or fog to cool heated containers/vessels and surrounding areas. If a leak or spill has not ignited, use water or spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE

HAZARDOUS DECOMPOSITION BYPRODUCTS:

Hyrdogen Sulfide, carbon monoxide, and other toxic gases may evolve during combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Contact local authorities
Avoid breathing fumes
Use SCBA for large spills or in confined spaces
Contain spills (if possible)and prevent product from entering sewers, storm drains, and waterways.
Absorb spills with sand, calcium carbonate or other inert materials.
Place recovered materials in appropriate containers and dispose of in accordance with local regulations.
Avoid contact with skin, eyes or clothing

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Handle molten product with gloves, facesheild, cotton pants, longsleeves, and apron to prevent exposure to burns.
Gloves should be used to handle the product in it's solid state
Vessels and containers designed shall be designed to store molten asphalt as defined by local and state regulations.

OTHER PRECAUTIONS:

All personnel should wear appropriate PPE (Personal Protective Equipment) as defined in Sectiion 8. Avoid exposure to fumes. Stay upwind of vessel openings when possible. Minimize breathing of vapors and fumes.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Per local and state regulations
VENTILATION :	Maintain adequate general dilution ventilation to remove vapor/fumes from storage vessels/tanks. Refer to local and state regulations.
RESPIRATORY PROTECTION:	Use a NIOSH/MSHA approved respirator if exposure reaches or exceeds occupational exposure limits (TLV/TWA 5 MG/m3)
EYE PROTECTION:	Ansi Z. 87 approved safety glasses/goggles and chemical resistant full face shield.
SKIN PROTECTION:	Wear substantial clothing. Cotton long sleeve shirts buttoned at the wrist, pants, gloves with gauntlets, leather boots or shoes with tops extending at least 15 cm above the ankle .
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Protective splash apron, barrier creams or lotions to prevent irritation of the skin
WORK HYGIENIC PRACTICES:	Wash hands and exposed skin thoroughly after handling product. (warm mineral oil at 90 F can be used as well)
EXPOSURE GUIDELINES:	ACGIH (TLV/TWA 5 MG/m3)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark viscous liquid, semi- solid/ solid at ambient temperatures
ODOR:	Asphalt/petroleum distillate hydrocarbon odor
PHYSICAL STATE:	Semi-solid at ambient temperature with elastomeric properties. Molten liquid when heated above products melt point
pH AS SUPPLIED:	Neutral
pH (Other):	N/A
BOILING POINT:	>875°F
MELTING POINT:	185-225 °f
FREEZING POINT:	Not determined
VAPOR PRESSURE (mmHg):	Not Determined
VAPOR DENSITY (AIR = 1):	Not determined
SPECIFIC GRAVITY: @60° F:	0.98-1.15
EVAPORATION RATE:	Not determined

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID (STABILITY):	Do not overheat (greater than 400F)
INCOMPATIBILITY (MATERIAL TO AVOID):	Water (While being held at elevated temperatures), flammable solvents/liquids
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Evolves toxic levels of carbon dioxides, carbon monoxides, irritating aldehydes and keytones when heated to combustion
HAZARDOUS POLYMERIZATION:	In certain conditions, and exothermic reaction can result from prolonged overheating

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **FILE NO.: 005 (Ennis Plant) SDS REV.DATE: 5/20/15**
 No Toxicological testing have been performed on this product. Asphalt and asphalt based products, and its by-products have been determined by IARC (International Agency for Research of Cancer) has concluded that this product falls under the 2B category for Carcinogenicity. NIOSH concluded that asphalt fumes are a potential occupational carcinogen.

EXPOSURE LIMIT 5mg/m3 for oil mist over an 8 hour daily exposure (ACGIH)

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This product may kill grass and other vegetation by interfering with transpiration and respiration. This product is not toxic to fish but may coat the gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress in birds and mammals through ingestion. Prevent product from entering waterways, storm drains and sewers. A film or sheen will cause discoloration of the water surface or adjoining shoreline.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if disposed of in its purchased form. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This product is subject to chemical alteration, which may render the resulting product as hazardous.

WASTE DISPOSAL METHOD: Dispose of product per local and state regulations

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME: Elevated temperature liquid, NOS
HAZARD CLASS: 9
ID NUMBER: UN 3257 PGIII
CANADIAN TDG Not Available
EUROPEAN Not available

OTHER: See 49 CFR for additional requirements for descriptions, allowed modes of transport, and packaging. For more information concerning spills during transport, consult the latest DOT Emergency Response Guidebook for hazardous materials incidents, DOT P 5800 3. 2B -IARC Classification

SECTION 15: REGULATORY INFORMATION

North America Regulatory Information

Clean water act/ Oil pollution act: Under section 311 of the CLEAN WATER ACT (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spills or discharges that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.

TSCA: All components of this material are listed in the US TSCA Inventory.

OSHA: IARC Monographs state that when laboratory animals are exposed to severely hydrotreated oils, such as these product(s), there is insufficient evidence for cancer. These oils are unlabeled in accordance with 29 CFR 1910.1200.

SARA TITLE III

Section 302/304: Extremely Hazardous Substance	None
Section 313: Toxic Chemicals	None

CERCLA: Section 102(a) Hazardous substance- Not a reportable quantity

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**CALIFORNIA
PROPOSITION #65**

Not listed

**CANADIAN DOMESTIC
SUSTANCES LIST**

All components of this product are listed.

European regulatory information
EUROPEAN
REGULATORY INFORMATION:

This product is not known to be listed on the European Inventory of Existing Commercial Substances

**CLASSIFIED AS DANGEROUS
TO SUPPLY:**

NO

RISK PHRASES:

NOT APPLICABLE

SAFETY PHRASES:

NOT APPLICABLE

SYMBOLS:

NONE

Asian regulatory information
JAPAN ENCS:

This product is not known to be listed on Japan's existing or new chemical substances list.

CHINA:

This product is not known to be listed on China's (IECSC) inventory of existing chemical substances manufactured or imported in China.

SECTION 16: OTHER INFORMATION
HAZARD RATINGS RECOMMENDED FOR CONTAINERS EVALUATION

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Precautionary labels: NONE REQUIRED

This SDS is compiled in accordance with ANSI Z400.1 and the EU Safety Data Sheet Directive 91/155/EEC.

Glossary:

ACIGH- American conference of Governmental Industrial Hygienist; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of dangerous goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency center(US); CHIP- Chemical Hazard Information and Packaging;DSL Domestic Substance List; EC- Equivalent Concentration; EH40 (UK)- HSE guidance note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right To Know Act; HMIS-Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL-Permissible Exposure Limits; SARA (Title III)- Superfund Amendments and Reauthorization Act (313); TWA- Time Weighted Average;TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; USDOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System

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