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SAFETY DATA SHEET

PIPE-LAX W

SDS No. 10134
Version 9
Revision date 06/Jul/2015
Supersedes date 07/May/2010

1. - IDENTIFICATION

1.1 Product identifier

Product name PIPE-LAX W
Product code 10134

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Drilling fluid additive.
Uses advised against Consumer use

1.3 Details of the Distributor information

Company name Delta Drilling Products & Services, LLC
Address 154 Eastpark Drive
Eunice, LA 70535
Telephone (866) 457-0064 or (337) 457-0064
E-mail deltaproducts@bellsouth.net

Prepared by

Global Regulatory Compliance – chemicals (GRC – Chemicals), Bethicia Prasek

1.4 Emergency Telephone Number

Emergency phone number CHEMTREC (800) 424-9300
Emergency telephone (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS – Classification

Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Sub-Category 1A
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Physical Hazards

Chronic aquatic toxicity	Category 3
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Environmental hazards

Flammable Liquids

Category 3

2.2 Label elements



Signal word

WARNING

Hazard statements

H315 – Causes skin irritation
H317 – May cause an allergic skin reaction
H319 – Causes serious eye irritation
H351 – Suspected of causing cancer
H412 – Harmful to aquatic life with long lasting effects
H226 – Flammable liquid and vapor

Precautionary statements

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P260 – Do not breathe dust/fume/gas/mist/vapors/spray
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P310 – Immediately call a POISON CENTER or doctor/physician
P370 + P378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P233 – Store in a well-ventilated place. Keep container tightly closed

Supplementary precautionary statements

P201 – Obtain special instructions before use
P202 – Do not handle until all safety precautions have been read and understood
P233 – Keep container tightly closed
P240 – Ground/bond container and receiving equipment
P241 – Use explosion-proof electrical/ventilating/lighting/equipment
P242 – Use only non-sparking tools
P243 – Take precautionary measures against static discharge
P264 – Wash face, hands and any exposed skin thoroughly after handling
P270 – Do not eat drink or smoke when using this product
P271 – Use only outdoors or in a well-ventilated area
P272 – Contaminated work clothing should not be allowed out of the workplace
P273 – Avoid release to the environment
P280 – Wear protective gloves/protective clothing/eye protection, face protection
P284 – Wear respiratory protection
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 – IF IN EYES: Rinse cautiously 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
P311 – Call a POISON CENTER or doctor/physician
P330 – Rinse mouth
P332 + P313 – If skin irritation occurs: Get medical advice/attention
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 – If eye irritation persists: Get medical advice/attention
P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P362 – Take off contaminated clothing and wash before reuse
P363 – Wash contaminated clothing before reuse

P403 + P235 – Store in a well-ventilated place. Keep cool
P501 – Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity 14.1% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not Applicable

3.2 Mixtures

Component	CAS-No	Weight % - range
Fuel Oil	68476-30-2	30 - 60
Rosin	8050-09-7	5 - 10
n-Butyl alcohol	71-36-3	1 - 5
Xylenes	1330-20-7	1 - 5
Napthalene	91-20-3	1 - 5

Comments

The product contains other ingredients which do not contribute to the overall classification. The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST-AID MEASURES

4.1 First-Aid Measures

Inhalation Move to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.

Ingestion Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

Skin contact Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

Eye contact Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms

Inhalation Please see Section 11. Toxicological Information for further information.

Ingestion Please see Section 11. Toxicological Information for further information.

Skin contact Please see Section 11. Toxicological Information for further information.

Eye contact Please see Section 11. Toxicological Information for further information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water fog, Alcohol Foam, CO₂, Dry Chemical.

Extinguishing media which shall not be used for safety reasons

None known.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air.

Hazardous combustion products

Carbon oxides (Cox), Nitrogen oxides (NOx), Ammonia.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Evacuate personnel to safe areas. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become very slippery.

6.2 Environmental precautions

Do not allow spilled material to enter sewers, storm drains or surface waters.

Environmental exposure controls

No information available.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

No information available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

Keep away from heat, sparks and open flame. No smoking. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation.

Storage precautions Keep away from open flames, hot surfaces and sources of ignition. Keep container/package tightly closed and in a well-ventilated place. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	ACGIH TLV	OSHA PEL
Fuel Oil	100 mg/m ³	Not Determined
Rosin	Not Determined	Not Determined
n-Butyl alcohol	20 ppm	100 ppm
Xylenes	100 ppm, 150 ppm STEL	100 ppm
Naphthalene	10 ppm 15 ppm STEL	10 ppm

8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPI recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection	Tightly fitting safety goggles.
Hand protection	Viton, polyvinyl alcohol or nitrile-butyl rubber gloves.
Respiratory protection	All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent. If exposed to airborne mist/aerosol of this product, use at least a NIOSH-approved N95 half-mask disposable or re-usable particulate respirator. In work environments containing oil mist/aerosol, use at least a NIOSH-approved P95 half-mask disposable or reusable particulate respirator. If exposed to vapors from this product use a NIOSH/msha-approved respirator with an Organic Vapor cartridge.
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact.
Hygiene measures	Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Transparent	
Color	Brown	
Odor	Hydrocarbon-like	
Odor threshold	Not applicable	
<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No information available	
pH @ dilution	No information available	
Melting/freezing point	No information available	
Boiling point/range	170 °C / 338 °F	
Flash point	38 °C / 100 °F	Closed cup
Evaporation rate (BuAc=1)	No information available	
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	0.8 – 1.0	
Bulk density	No information available	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Log Pow	No information available	

Explosive properties No information available

Oxidizing properties No information available

9.2 Other information

Pour point No information available

Molecular weight No information available

VOC content (%) No information available

Density No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Keep away from sources of ignition – No smoking.

10.5 Incompatible materials

Strong oxidizing agents. Acids. Bases.

10.6 Hazardous decomposition products

Carbon oxides (Cox). Nitrogen oxides (NOx). Ammonia.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Inhalation

May cause irritation of respiratory tract. Vapors inhaled in high concentration have a narcotic effect on the central nervous system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

Eye contact

Severely irritating to eyes.

Skin contact

Causes skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fuel Oil	= 12 g/kg (Rat)	>2000 mg/kg (Rabbit) = 4720 uL/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
Rosin	= 3 mg/kg (Rat)	>2500 mg/kg (Rabbit)	No data available
n-Butyl alcohol	= 790 mg/kg (Rat)	= 3400 mg/kg (Rabbit)	= 8000 ppm (Rat) 4 h >17.7 mg/L (Rat) 4 h
Xylenes	= 4300 mg/kg (Rat)	>1700 mg/kg (Rabbit)	= 5000 ppm (Rat) 4 h = 47635 mg/L (Rat) 4 h
Naphthalene	= 490 mg/kg (Rat)	>20 g/kg (Rabbit) >2500 mg/kg (Rat)	>340 mg/m ³ (Rat) 1 h

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Fuel Oil	No data available	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	No data available	No data available
Rosin	No data available	No data available	No data available	No data available
n-Butyl alcohol	No data available	No data available	No data available	No data available
Xylenes	No data available	A4 Not Classification as a Human Carcinogen	No data available	No data available
Naphthalene	Group 2B: Monograph 82 [2002] 2B	A4 Not Classification as a Human Carcinogen	Present	Reasonable Anticipated To Be a Human Carcinogen

Sensitization	May cause sensitization by skin contact.
Mutagenic effects	No evidence of mutagenic properties.
Carcinogenicity	Contains a known or suspected carcinogen.
Reproductive toxicity	No evidence of toxicity to reproduction.
Developmental toxicity	Not known to cause birth defects or have a deleterious effect on developing fetus.
Routes of exposure	Inhalation. Skin contact. Eye contact.
Routes of entry	Skin absorption. Ingestion
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2.
Neurological effects	Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions.
Target organ effects	Heart. Liver. Kidney. Central nervous system. Cardiovascular system. Reproductive System.
Aspiration hazard	Not Applicable.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to algae

See component information below.

Toxicity to fish

See component information below.

Toxicity to daphnia and other aquatic invertebrates

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Fuel Oil 68476-30-2 (30 - 60)	35 mg/L LC50 (Pimephales promelas) = 96 h	No information available	No information available
Rosin 8050-09-7 (5 - 10)	No information available	40 mg/L EC50 (Desmodesmus subspicatus) = 72 h	3.8 - 5.4 mg/L EC50 (Daphnia magna) = 48 h

n-Butyl alcohol 71-36-3 (1 - 5)	100000 - 500000 micro g/L LC50 (Lepomis macrochirus) = 96 h 1910000 micro g/L LC50 (Pimephales promelas) = 96 h 1740 mg/L LC50 (Pimephales promelas) = 96 h 1730 - 1910 mg/L LC50 (Pimephales promelas) = 96 h	500 mg/L EC50(Desmodesmus subspicatus) = 96 h 500 mg/L EC50 (Desmodesmus subspicatus) - 72 h	1983 mg/L EC50 (Daphnia magna) = 48 h 1897 - 2072 mg/L EC50 (Daphnia magna) = 48 h
Xylenes 1330-20-7 (1 - 5)	13.4 mg/L LC50 (Pimephales promelas) = 96 h 2.661 - 4.093 mg/L LC50 (Oncorhynchus mykiss) = 96 h 13.5 - 17.3 mg/L LC50 (Oncorhynchus mykiss) = 96 h 13.1 - 16.5 mg/L LC50 (Lepomis macrochirus) = 96 h 19 mg/L LC50 (Lepomis macrochirus) = 96 h 7.711 - 9.591 mg/L LC50 (Lepomis macrochirus) = 96 h 23.53 - 29.97 mg/L LC50 (Pimephales promelas) = 96 h 780 mg/L LC50 (Cyprinus carpio) = 96 h 30.26 - 40.75 mg/L LC50 (Peocilia reticulata) = 96 h	No information available	0.6 mg/L LC50 (Gammarus lacustris) = 48 h 3.82 mg/L EC50 (water flea) = 48 h
Naphthalene 9-20-3 (1 - 5)	1.6mg/L LC50 (Oncorhynchus mykiss) = 96 h 0.91 - 2.82 mg/L LC 50 (Oncorhynchus mykiss) - 96 h 5.74 - 6.44 mg/L LC50 (Pimephales promelas) = 96 h 31.0265 mg/L LC50 (Lepomis macrochirus) = 96 h 1.99 mg/L LC50 (Pimephales promelas) = 96 h	0.4 mg/L EC50 (Skeletonema costatum) = 72 h	1.96 mg/L EC50 (Daphnia magna) = 48 h 1.09 - 3.4 mg/L EC50 (Daphnia magna) = 48 h 2.16 mg/L LC50 (Daphnia magna) = 48 h

12.2 Persistence and degradability

No product level data available.

12.3 Bioaccumulative potential

No product level data available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Method

Disposal should be made in accordance with federal state and local regulations.

Contaminated packaging

Do not burn, or use a cutting torch on, the empty drum. Empty containers may contain flammable or explosive vapors. Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

14.1 UN Number

UN No. (DOT)	UN1933
UN No. (TDG)	UN1993
UN/ID No. (ADR/RID/ADN/ADG)	UN1993
UN No. (IMDG)	UN1993
UN No. (ICAO)	UN1993

14.2 Proper shipping name

FLAMMABLE LIQUID, N.O.S. (contains fuel oil, n-butyl alcohol)

Product (RQ): 1006 gallons (naphthalene)

14.3 Hazard class(es)

DOT Hazard class	3
TDG Hazard class	3
ADR/RID/ADN/ADG Hazard class	3
IMDG Hazard class	3
ICAO Hazard class/division	3

14.4 Packing group

DOT Packing group	PG III
TDG Packing group	PG III
ADR/RID/ADN/ADG Packing group	PG III
IMDG/Packing group	PG III
ICAO Packing group	PG III

**14.5 Environmental hazard**

Marine pollutant No

14.6 Special precautions

Not Applicable

15. REGULATORY INFORMATION

International inventories

USA (TSCA)	Complies
Canada (DSL)	Complies
European Union (EINECS and ELINCS)	Does not Comply
Philippines (PICCS)	Does not Comply
Japan (ENCS)	Does not Comply
China (IECSC)	Does not Comply
Australia (AICS)	Does not Comply
Korean (KECL)	Complies
New Zealand (NZIoC)	Does not Comply

U.S. Federal and State Regulations**SARA 311/312 Hazard Categories**

Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

Component	SARA 302/TPQs	SARA 313	CERCLARQ
Fuel Oil	N/A	N/A	N/A
Rosin	N/A	N/A	N/A
n-Butyl alcohol	N/A	1.0%	5000 lb final RQ 2270 kg final RQ
Xylenes	N/A	1.0%	100 lb final RQ 45.4 kg final RQ
Naphthalene	N/A	0.1%	100 lb final RQ 45.4 kg final RQ

State Comments

Proposition 65: This product contains chemical(s) considered by the State of California’s Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity. See table under U.S. Federal and State Regulations for the specific chemicals.

Naphthalene

carcinogen

Canadian Classification

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

16. OTHER INFORMATION

Supersedes date 07/May/2010

Revision Date 06/Jul/2015

Version 9

The following sections have been revised: All sections, Updated according to GHS/CLP.

HMIS classification

Health 2*

Flammability 2

Physical hazard 0

PPE J

N/A – Not applicable, N/D – Not Determined

Disclaimer

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