



Safety Data Sheet PIPE-LAX* ENV

1. Identification

1.1 Product identifier

Product name PIPE-LAX* ENV
Product code 10131

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

Recommended Use Spotting fluid.
Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier
M-I L.L.C.
P.O.Box 42842
Houston, TX 77242
www.miswaco.slb.com
Telephone: 1 281-561-1511

M-I SWACO, A Schlumberger Company
200 - 125, 9th Avenue SE
Calgary, Alberta T2G 0P6, Canada
Telephone: 1-780-962-8221

E-mail address SDS@slb.com

Prepared by
Global Regulatory Compliance - Chemicals (GRC - Chemicals)

1.4 Emergency Telephone Number

Emergency telephone (24 Hour) Asia Pacific +65 3158 1074, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, USA +1 281 561 1600, Canada +1 800 579 7421, Argentina: +54 11 5984 3690, Brazil : 0800-720-8000/0800-777-2323 (WGRA)

2. Hazards Identification

2.1 Classification of the substance or mixture

GHS - Classification

Health hazards

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity - Single exposure	Category 1 - Ingestion - (H370)

Environmental hazards Not classified

Physical Hazards

Flammable Liquids	Category 4
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2.2 Label elements



Signal word

DANGER

Hazard Statements

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H370 - Causes damage to organs
- H227 - Combustible liquid

Precautionary Statements

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P260 - Do not breathe dust, fume, gas, mist, vapors, spray
- P280 - Wear protective gloves, protective clothing, eye protection
- P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P403 + P235 - Store in a well-ventilated place. Keep cool
- P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P332 + P313 - If skin irritation occurs: Get medical attention
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P362 - Take off contaminated clothing and wash before reuse
- P270 - Do not eat, drink or smoke when using this product
- P330 - Rinse mouth
- P271 - Use only outdoors or in a well-ventilated area
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up
- P501 - Dispose of contents and container to an approved waste disposal plant

Hazards not otherwise classified

None known

Unknown acute toxicity

24% of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Glycol Ether	Proprietary	30 - 60
Polypropylene glycol	25322-69-4	30 - 60
n-Butyl alcohol	71-36-3	5 - 10
Ester compound	Proprietary	1 - 5

Synonyms

71-36-3: 1-Butanol, Butanol; 25322-69-4: Poly(oxy(methyl-1,2ethanediyl)), alpha-hydro-omega-hydroxy-

Comments

All ingredients whose identities/CAS # are claimed as Proprietary are claimed under HMIRA #12106. The exact percentage (concentration) of composition has been withheld as a trade secret.

Hazardous Material Information Review Act registry number (HMIRA registry #) 12106

Filing Date: 01/May/2018

4. First Aid Measures

4.1 First aid measures

Inhalation	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Seek medical attention.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Take off contaminated clothing and wash it before reuse.
Eye Contact	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General advice	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible. Seek medical attention for all burns, regardless how minor they may seem.
Symptoms	
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	Irritating to skin. Irritant; may cause pain, redness, dermatitis.
Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically
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5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Dry chemical, Dry sand, Alcohol resistant foam.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Combustible liquid. Heating of containers may cause pressure rise, with risk of bursting.

Hazardous combustion products

Fire or high temperatures create:, Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke), Nitrogen oxides (NOx).

5.3 Advice for firefighters

Special protective equipment for fire-fighters

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

Special Fire-Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. See also section 8. Solutions extremely slippery when spilled. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). Take precautionary measures against static discharges. Use non-sparking tools and equipment.

6.4 Reference to other sections

See section 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid spills and splashing during use. If spilled, take caution, as material can cause surfaces to become very slippery. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, protective clothing and eye protection.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation.

Storage precautions Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Protect from freezing. Avoid contact with: Oxidizing agents. Acids.

Packaging materials Use specially constructed containers only.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	Argentina - Occupational Exposure Limits - TWAs (CMPs)	Brazil - Occupational Exposure Limits - TWAs (LTs)	Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs)
Glycol Ether	Not determined	Not determined	Not determined	Not determined	Not determined
Polypropylene glycol	Not determined	Not determined	Not determined	Not determined	Not determined
n-Butyl alcohol	20 ppm	100 ppm	Not determined	40 ppm TWA LT; 115 mg/m ³ TWA LT	20 ppm TWA VLE-PPT
Ester compound	Not determined	Not determined	Not determined	Not determined	Not determined

IDLH (Immediately Dangerous to Life or Health)

This product contains substance(s) classified as Immediately Dangerous to Life or Health (IDLH) by the US National Institute for Occupational Safety and Health (NIOSH). The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.

Chemical Name	IDLH (Immediately Dangerous to Life or Health)
Glycol Ether	-
Polypropylene glycol 25322-69-4	-
n-Butyl alcohol 71-36-3	1400 ppm IDLH (10% LEL)
Ester compound	-

8.2 Exposure controls

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazards after applying the primary controls, Personal Protective Equipment (PPE) must be used.

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 PPE 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 Controls

Keep airborne concentrations below exposure limits. Ensure adequate ventilation. Local exhaust ventilation. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

Eye protection	Tightly fitting safety goggles.
Hand protection	Use protective gloves made of: Butyl Rubber Frequent change is advisable
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 an organic vapor cartridge with a P-95 pre-filter attached. In work environments containing oil mist/aerosol, use an organic vapor cartridge with a P-95 pre-filter attached. If exposed to vapors from this product, use a NIOSH/MSHA-approved respirator with an organic vapor cartridge.
Skin and body protection	Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.
Hygiene Measures	Wash hands before eating, drinking or smoking, 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	Opaque
Color	Dark brown
Odor	Hydrocarbon-like and Slight glycol ether
Odor threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	Not applicable	
pH @ dilution		No information available
Melting point	No information available	
Boiling point	No information available	
Flash point	88 °C / 190 °F	PMCC
Evaporation rate (BuAc =1)	No information available	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	>1 @ Air = 1	
Specific gravity	0.90 - 1.30	
Bulk density	No information available	
Water solubility	slightly soluble	
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	
Partition Coefficient (n-octanol/water)	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

Comments

The data listed above are typical physical and chemical properties and should not be construed as product specification.

10. Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization
Not known.

10.4 Conditions to avoid

Avoid contact with heat, sparks, open flame, and static discharge. Protect from freezing.

10.5 Incompatible materials

Oxidizing agents. Acids.

10.6 Hazardous decomposition products

Smoke. Carbon oxides (COx). Nitrogen oxides (NOx).

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact Causes serious eye irritation.

Skin contact Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion Harmful if swallowed. Causes damage to organs.

LD50 Oral ATE: 1009 mg/kg

LD50 Dermal ATE: 54,000 mg/kg

Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycol Ether	1400 mg/kg (rat)	13340 mg/kg (Rabbit)	No data available
Polypropylene glycol	640 mg/kg (rat)	No data available	No data available
n-Butyl alcohol	700 mg/kg (rat)	3400 mg/kg (Rabbit)	No data available
Ester compound	29000 mg/kg (rat)	3003 mg/kg (Rabbit)	No data available

Chemical Name	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Glycol Ether	No data available	No data available	No data available	No data available
Polypropylene glycol	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
Ester compound	No data available	No data available	No data available	No data available

Delayed and immediate effects and chronic effects from short and long term exposure

Short-term exposure	Immediate effects: HARMFUL IF SWALLOWED. Causes damage to organs. Chronic Effects. None known.
Long-term exposure	None known
Sensitization	Not classified.
Mutagenic effects	This product does not contain any known or suspected mutagens.
Carcinogenicity	No information available.
Reproductive toxicity	Conclusive but not sufficient for classification.
Developmental toxicity	No information available.
Routes of Exposure	Skin contact. Inhalation. Ingestion. Eye contact.
Routes of entry	Ingestion. Inhalation.
Specific target organ toxicity - Single exposure	Category 1 - Ingestion
Specific target organ toxicity - Repeated exposure	Not classified.
Aspiration hazard	Not classified.

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.

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Glycol Ether	No information available	No information available	No information available
Polypropylene glycol	No information available	No information available	No information available
n-Butyl alcohol	= 1910000 µg/L LC50 Pimephales promelas 96 h 100000 - 500000 µg/L LC50 Lepomis macrochirus 96 h = 1740 mg/L LC50 Pimephales promelas 96 h 1730 - 1910 mg/L	> 500 mg/L EC50 Desmodesmus subspicatus 72 h > 500 mg/L EC50 Desmodesmus subspicatus 96 h	1897 - 2072 mg/L EC50 Daphnia magna 48 h = 1983 mg/L EC50 Daphnia magna 48 h

	LC50 Pimephales promelas 96 h		
Ester compound	= 5300 mg/L LC50 Leuciscus idus 96 h > 1000 mg/L LC50 Cyprinus carpio 96 h	> 500 mg/L EC50 Desmodesmus subspicatus 72 h	> 500 mg/L EC50 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

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 If recycling is not practicable, dispose of in compliance with local regulations.

14. Transport information

14.1. UN number

UN No. (DOT) NA1993
UN No. (MT/ANTT) Not regulated
UN No. (TDG) Not regulated
UN/ID No. (ADR/RID/ADN/ADG) Not regulated
UN No. (IMDG/ANTAQ) Not regulated
UN No. (ICAO/ANAC) Not regulated
UN No. (DPC) Not regulated

14.2. UN proper shipping name

Combustible liquid, n.o.s., (contains n-butyl alcohol),

14.3 Hazard class(es)

DOT Hazard class Combustible liquid
ANTT Hazard class Not regulated
TDG Hazard class Not regulated
ADR/RID/ADN/ADG Hazard class Not regulated
IMDG/ANTAQ Hazard class Not regulated
ICAO/ANAC Hazard class/division Not regulated
DPC Hazard class Not regulated

14.4 Packing group

DOT Packing group	PG III
ANTT Packing group	Not regulated
TDG Packing group	Not regulated
ADR/RID/ADN/ADG Packing group	Not regulated
IMDG/ANTAQ Packing group	Not regulated
ICAO/ANAC Packing group	Not regulated
DPC Packing group	Not regulated

14.5 Environmental hazard

No

14.6 Special precautions

Not applicable

15. Regulatory Information

International inventories

USA (TSCA)	Complies
Canada (DSL)	Volume restriction. This product contains chemical(s) which is/are not listed on DSL but is/are listed on the NDSL.
Philippines (PICCS)	Complies
Japan (ENCS)	Does not comply
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

Europe - REACH

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance.

U.S. Federal and State Regulations

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

Chemical Name	SARA 302 / TPQs	SARA 313	CERCLA RQ
Glycol Ether	N/A	N/A	N/A
Polypropylene glycol	N/A	N/A	N/A
n-Butyl alcohol	N/A	1.0 %	5000 lb final RQ 2270 kg final RQ
Ester compound	N/A	N/A	N/A

California Proposition 65

This product does not contain chemical[s] which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Brazilian Regulations

Brazil Regulation This SDS was prepared in accordance with Brazil law NBR 14725.

Federal Police Not determined

Army Not determined

ANVISA Not determined

16. Other Information

Supersedes date 20/Aug/2014

Revision date 06/Dec/2019

Version 7

This SDS has been revised in the following section(s) 1, 3, 15, 16

HMIS classification

Health	2
Flammability	2
Physical hazard	0
PPE	B

N/A - Not Applicable, N/D - Not Determined.

Disclaimer

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