

SAFE-T-PICKLE

High-flashpoint pipe dope solvent

APPLICATIONS

- Removal of excess pipe dope used to lubricate pipe threads during tripping operations

ADVANTAGES

- Excellent solvent for pipe dope removal
- Effective solvent for difficult copper-based pipe dopes
- High flashpoint
- No recognized carcinogens
- No hazardous components (BTEX)
- Requires minimal (~5-min) contact time
- Wide temperature range

SAFE-T-PICKLE* high-flashpoint pipe dope solvent is a highly effective nonaromatic additive that contains no recognized carcinogens.

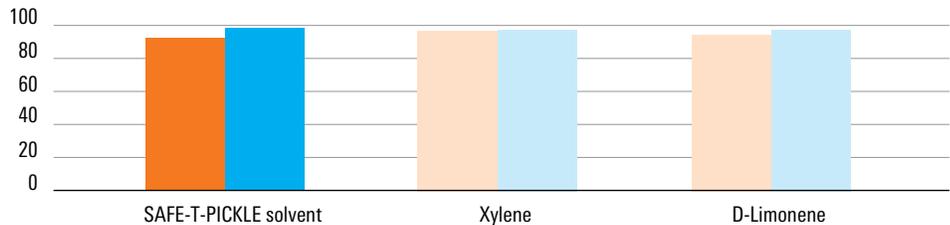
It is effective in cleaning commonly used copper- and zinc-based compounds. A fast-acting solvent that requires minimum contact time, SAFE-T-PICKLE solvent is effective over a wide temperature range and is ideal for deepwater applications.

SAFE-T-PICKLE solvent removes excess pipe dope that is used to lubricate pipe threads during tripping operations. Removal efficiency is a function of flow rate and contact time. A minimum contact at a flow rate of 120 ft/min is recommended. Pumping should proceed down the workstring until the solvent is several barrels from the end of the string. The solvent should then be reversed out at the maximum allowable rate to aid the removal of debris cleaned from the pipe. If the pipe dope solvent circulation is followed by a pickling acid to remove pipe scale, solvent, and spent acid, returns should not be commingled until the acid is fully neutralized with soda ash (2.0 lb Na₂CO₃ per galUS of 15% HCl). At least two workstring volumes should be circulated following the pickle to ensure the workstring is free of debris.

Typical Physical Properties

Physical appearance	Clear liquid
Odor	Pleasant, citric
Specific gravity	0.82
Solubility (water)	Very slight
Flashpoint†	144 degF [62 degC]

† Measured using continuously closed cup flashpoint (CCCFP) tester.



Removal of copper-based pipe dope at 120 ft/min at 75 degF [24 degC] after 5-min (orange) and 10-min (blue) contact time.

Pump Rate, bbl/min	Volume, galUS
2.0	420
2.5	525
3.0	630
3.5	735
4.0	840
4.5	945
5.0	1,050

Example: Volume pump rate required for 5-min contact time in 5.5-in 24.7 lb/ft workstring.

SAFE-T-PICKLE

Limitations

Not recommended to mix directly with acid. Acid returns should be neutralized with soda ash at a rate of 2.0 lb Na_2CO_3 per galUS of 15% HCl.

Toxicity and handling

Bioassay information is available on request. Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the MSDS.

Packaging and storage

SAFE-T-PICKLE solvent is packaged in 55-galUS [210-L] drums, 330-galUS [1,250-L] tote tanks, or 550-galUS [2,100-L] tote tanks.

Store in a dry, well-ventilated area. Keep container closed. Keep away from heat, sparks, and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping, or stacking.

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