

TYPHON

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

Neptune's *Typhon* is a patent-pending, two-part friction reducer remediation system consisting of Typhon X, the oxidizer component, and Typhon A, the activator. When combined, the system generates highly reactive oxidative chemistry that rapidly cleaves and degrades the polymer backbone of both HPAM (hydrolyzed polyacrylamide) and AMPS-based friction reducers, breaking down the polymer structure responsible for FR integrity and persistence.

Application is straightforward: add one pail of Typhon X and blend for 5 minutes. Next, add one pail of Typhon A to the tub and blend for approximately 30 seconds. Immediately pump the activated treatment through the string. As Typhon moves through the tubular, the activated chemistry attacks the residual friction reducer polymer, cleaving the backbone and reducing the high-molecular-weight polymer into lower-molecular-weight fragments that can be more readily mobilized and removed from the system.

FEATURES

- Pre-package dosing allows for easy mixing and application
- Quick breaking maintains operational efficiency
- May delay or remove the need for pigging

PROPERTIES

Specification	Typhon X	Typhon A
Appearance	White granular solid	Clear to light green liquid
pH	not applicable	2.0 ± 0.2
Density (lb/gal)	not applicable	8.9 ± 0.5

SAFETY & TRANSPORTATION

Organization	Typhon X	Typhon A
DOT	UN3216, Persulfates, inorganic, n.o.s., Class 5.1, PGIII	Not regulated
IMDG	UN3216, Persulfates, inorganic, n.o.s., Class 5.1, PGIII	Not regulated
IATA	UN3216, Persulfates, inorganic, n.o.s., Class 5.1, PGIII	Not regulated