Refining

CHEMISTRY CREATES AMERICA COMPETES™

Chemistry Critical to National Priorities

U.S. chemical producers provide chemistry needed to achieve national priorities, including the manufacturing of computer chips and automobiles, energy development, rebuilding the country's infrastructure, and supporting healthcare and biotechnology. Pro-growth, science-based policies are needed to ensure we can produce more of these critical chemistries here at home and help make America the world's manufacturing superpower. For more information visit: **chemistrycreates.org**

Case Study: Refining

U.S. chemical manufacturers produce materials used in the building, delivery, and maintenance of equipment and machinery used in petrochemical refining - an industry that supports America's energy, textiles, building & construction, infrastructure, healthcare, consumer goods, transportation, and other industries.

Carbon Tetrachloride: used in petroleum refining as a nonflammable and nonexplosive industrial solvent.

PCE (Perchloroethylene): important chlorination agent in petroleum refining to allow the production of motor fuels in compliance with EPA requirements.

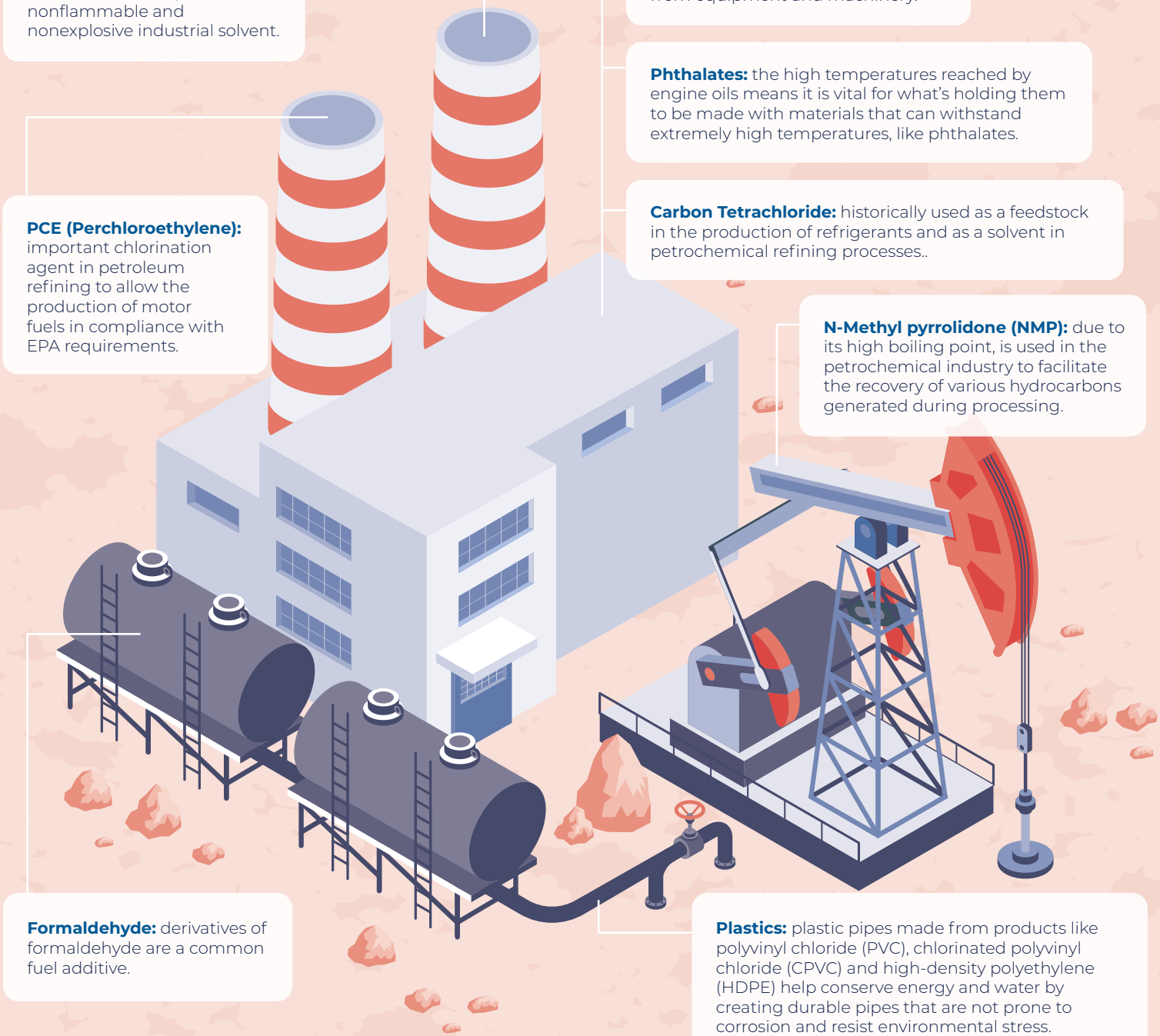
Formaldehyde: derivatives of formaldehyde are a common fuel additive.

1-Bromopropane: used as a solvent and degreaser to remove residues from equipment and machinery.

Phthalates: the high temperatures reached by engine oils means it is vital for what's holding them to be made with materials that can withstand extremely high temperatures, like phthalates.

Carbon Tetrachloride: historically used as a feedstock in the production of refrigerants and as a solvent in petrochemical refining processes..

N-Methyl pyrrolidone (NMP): due to its high boiling point, is used in the petrochemical industry to facilitate the recovery of various hydrocarbons generated during processing.



Plastics: plastic pipes made from products like polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC) and high-density polyethylene (HDPE) help conserve energy and water by creating durable pipes that are not prone to corrosion and resist environmental stress.