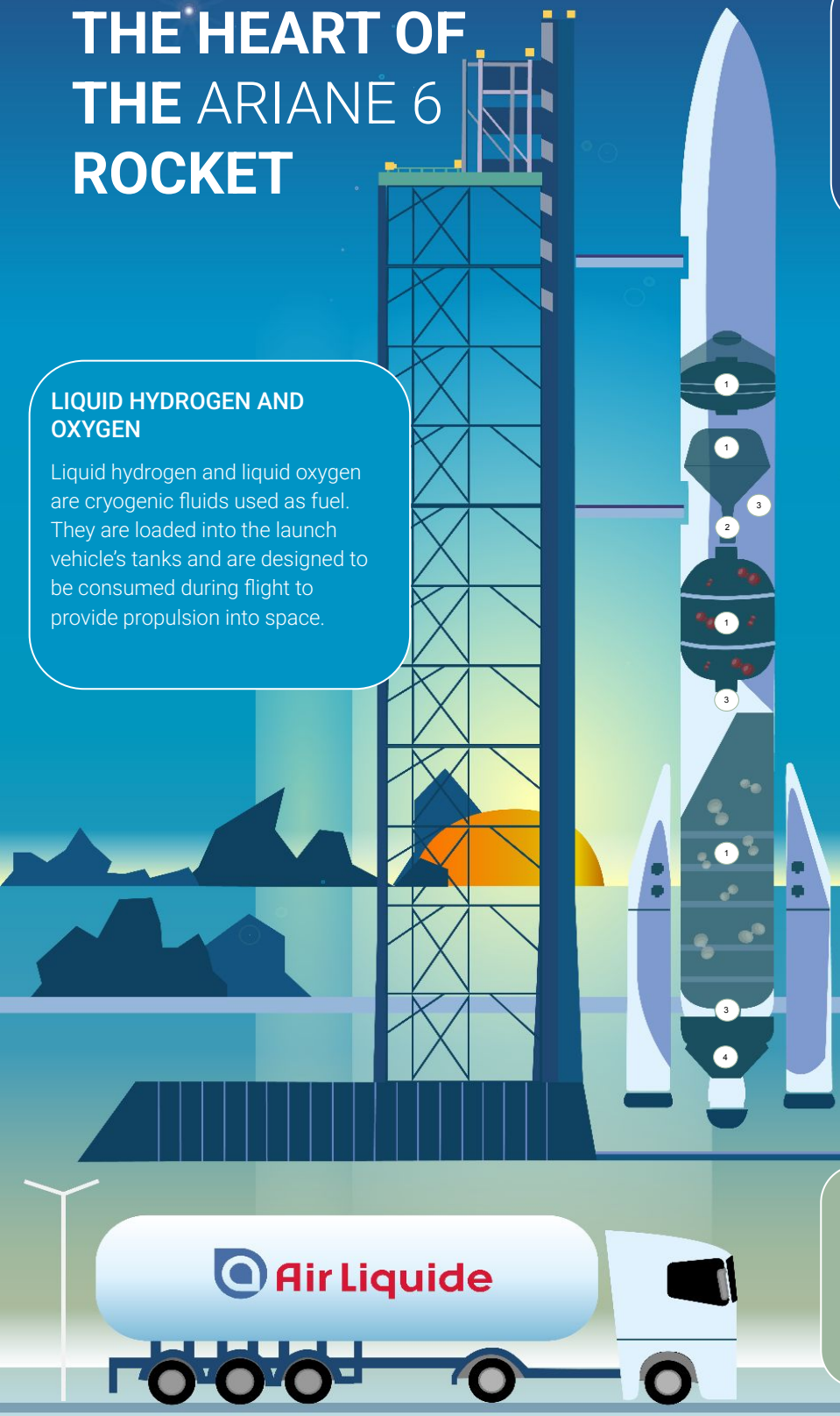
AIR LIQUIDE AT THE HEART OF THE ARIANE 6 ROCKET

COMPRESSED AIR

Compressed air is used, in particular, to cool the satellite located beneath the rocket's fairing throughout the launch preparation phase, thereby lowering its temperature prior to flight.

LIQUID HYDROGEN AND OXYGEN

Liquid hydrogen and liquid oxygen are cryogenic fluids used as fuel. They are loaded into the launch vehicle's tanks and are designed to be consumed during flight to provide propulsion into space.



1. **PROPELLANT MANAGEMENT DEVICES AND THERMAL INSULATION**
   They are used to manage propellants to ensure that engines are supplied with fuel during flight, meeting the required quality and performance standards.
2. **HELIUM REGULATION PLATE**
   It maintains a stable pressure in the control circuit and is used to pressurize the liquid oxygen (LOx) and liquid hydrogen (LH2) tanks during the various phases of flight.
3. **CRYOGENIC LINES**
   They transport the cryogenic fluids to the engines and other equipment.
4. **LIQUID HELIUM TANK**
   It contains the helium that maintains a constant pressure in the cryogenic fluid tanks during flight, ensuring the propulsion mechanism.

NITROGEN AND HELIUM

Nitrogen and helium are mainly used to pressurise systems and to 'inert' the rocket in order to remove any impurities, thereby ensuring the complete safety of the installations.