UNPCHEMICALS

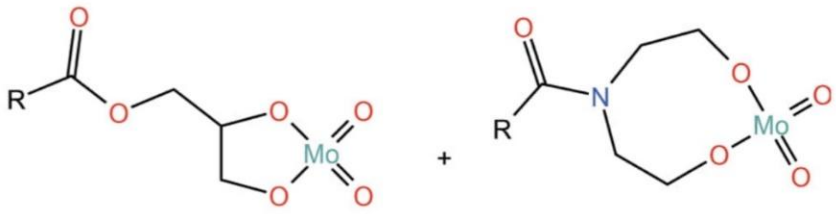
FRICTION MODIFIER

*MSAIL*® ORGANIC MOLYBDENUM SERIES

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***MSAIL® 8550*** belongs to the organomolybdenum complex (S/P free). As an oil soluble liquid organic molybdenum friction modifier, it can significantly reduce the friction coefficient of crankcase oil and engine oil. It can effectively control the oxidative degradation of lubricating oil. Cooperate with sulfur containing additives, it can greatly improve the friction-reducing and anti-wear properties. Synergize with aromatic amine antioxidants, it can achieve excellent antioxidant effect. This product does not contain sulfur and phosphorus, and has the advantages of excellent performance, energy conservation and environmental protection.

## CHEMICAL COMPOSITION




Organomolybdenum complex (S/P free) CAS No.: 445409-27-8

## TYPICAL PROPERTIES

| Test Item | Typical Data | Method |
|---|---|---|
| Appearance | Brown viscous liquid | Visual inspection |
| Density at 20℃, g/cm$^3$ | 1.08 | GB/T 1884 |
| Viscosity at 100℃, mm$^2$/s | 51.0 | GB/T 265 |
| Flash point open cup, ℃ | 164.0 | GB/T 3536 |
| Molybdenum content, % | 7.9 | NB/SH/T 0824 |
| Nitrogen content, % | 2.7 | NB/SH/T 0656 |

*Note: The above analytical data are not specifications.*

## PERFORMANCE CHARACTERISTICS

- Does not contain sulfur and phosphorus (S/P free)
- Less odor, good oil solubility
- Excellent friction-reducing performance, anti-wear, anti-oxidation performance
- Excellent synergistic effect with antioxidants and sulfur containing additives

## APPLICATION

- Internal-combustion engine oil
- Various industrial lubricating oils
- Pure oil type metalworking fluids
- Lubricating grease

## USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended treat level: 0.2-3.0%

## RELATIVE PRODUCTS

- MOLYVAN 855

## PACKAGING AND STORAGE

| | |
|---|---|
| **Packaging** | 50kg plastic drum or 180kg steel drum (Net weight) |
| **Storage conditions** | Store in a cool, dry, well-ventilated warehouse |

## HEADLING INFORMATION

Avoid contact with skin, eyes and clothing. Operate in accordance with good industrial health and safety practices. Please refer to material safety data sheet (MSDS) for additional handling information on *MSAIL® 8550*.

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