# Master STAGES™ CLEAN AMO™

## *Natural-solvent Cleaner and Degreaser*

Master STAGES™ CLEAN AMO™ A maize `N Orange™ is a natural-solvent cleaner that can be mixed with water and used for a wide range of industrial cleaning jobs. CLEAN AMO does an outstanding job removing oily, greasy, or resinous soils at room temperature.

***Manufacturer Improves Cleanliness and Reduces Time with Master STAGES™ CLEAN AMO™***



*The customer, located in Rayong, Thailand, is one of the region's largest manufacturers of aluminum alloy and steel wheels. As a longtime user of TRIM® cutting fluids for metalworking, they wanted to implement additional Master Fluid Solutions products into their operation to help streamline their factory.*

## Choose CLEAN AMO:

- CLEAN AMO cleans with natural solvents extracted from corn (maize) and oranges (d-limonene), along with several additional ingredients that improve performance and water mixability
- With a neutral pH and low conductivity, AMO will not cause splitting of TRIM coolants
- Compatible with ultrafiltration systems and bioremediation
- Unlike most water-mixable degreasers, CLEAN AMO does not require heating to remove greases and resins
- AMO can be used straight (100%) or cut back with water depending on the application
- There are no mineral oils or petroleum solvents in CLEAN AMO
- AMO can be used for general cleaning tasks and to remove soils from parts, tools, and machines
- Users like CLEAN AMO's very mild, pleasant orange scent
- Environmental approvals are simplified because CLEAN AMO contains no nitrites, barium, phenols, or butyl cellusolve and has no SARA 313 reportable ingredients
- Effective mop bucket cleaner
- For use in floor scrubber machines
- Rinses off easily with plain water

## CLEAN AMO especially for:

**Applications** — all purpose cleaning, automatic floor scrubbers, floor cleaning, hard surface cleaning, machine cleaning outside, mop bucket cleaning, and spray bottle

**Soils** — coolant residues, greases, heavy oils, light oils, and waxes

**Materials** — aluminum, aluminum alloys, brass, cast iron, copper, steels, and yellow alloys

**Industries** — medical

**CLEAN AMO is free of —** 2-butoxyethanol (Butyl), amines, barium, biocides, high pH additives, mineral oils, nitrites, petroleum solvents, phenols, phosphate, SARA 313 listed ingredients, and silicates

Master Fluid SOLUTIONS®

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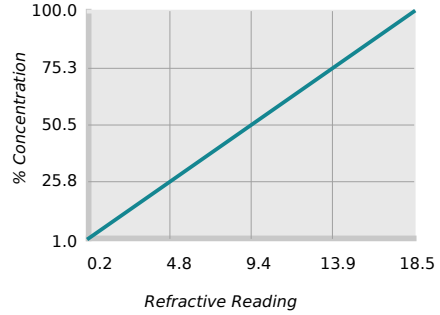
## Application Guidelines

- For washing parts in pump and brush style manual washers, use CLEAN AMO unheated at 40% - 100% depending on how difficult the soil is.
- In immersion-style washers and ultrasonic baths, use CLEAN AMO at 30% - 50% (high enough to maintain a clear solution) and do not heat over 110°F (43°C).
- CLEAN AMO is great for washing oily residues from machine tools. It can be sprayed on, then wiped or rinsed off.
- Since CLEAN AMO can lift some types of paint, check a hidden area before applying to the whole machine.
- CLEAN AMO can be used in floor scrubbers (5% - 10%) and mop buckets (10% - 20%) for really oily or greasy floors.
- Do not use CLEAN AMO for degreasing very hot surfaces (like engine exhaust manifolds).
- CLEAN AMO does not provide any in-process rust inhibition.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/na/en-us/distributors/index.php, your District Sales Manager, or call our Tech Line at 1-800-537-3365.

## Physical Properties Typical Data

| | |
|---|---|
| Color (Concentrate) | Clear |
| Color (Working Solution) | Clear |
| Odor (Concentrate) | Orange |
| Form (Concentrate) | Liquid |
| Flash Point (Concentrate) (ASTM D93-08) | > 199°F |
| pH (Concentrate as Range) | 5.0 - 7.0 |
| pH (Typical Operating as Range) | 7.0 - 9.5 |
| Coolant Refractometer Factor | 5.4 |
| V.O.C. Content (EPA Method 24) | 2 lbs/gal |

## Concentration by % Brix




% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 5.4

## Health and Safety

Request SDS

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## Mixing Instructions

- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.




1-gallon jug
SKU: CLEANAMO-1G
UPC-12: 641238070764




5-gallon pail
SKU: CLAMO-5G
UPC-12: 641238039280



54-gallon drum
SKU: CLAMO-54G
UPC-12: 641238039310



270-gallon tote
SKU: CLAMO-270G
UPC-12: 641238069195

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## Additional Information

- Industrial use only
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
- Master STAGES™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
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