

MATERIAL SAFETY DATA SHEET
TRIM® CLEAN AMO™ “A maize ‘N Orange”™

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name TRIM® CLEAN AMO™ “A maize ‘N Orange”™

Material type Natural-solvent Cleaner and Degreaser

Classification/synonym(s) Water miscible washing compound concentrate

Product use Removal of metalworking fluids from machine tools, parts, and floors

Manufacturer address MASTER CHEMICAL CORPORATION
501 West Boundary
Perrysburg, OH 43551-1200
419-874-7902

Emergency telephone 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOM.	CAS #	%RANGE
Triethanolamine	none	5mg/m ³	none	102-71-6	1-10

The exact chemical identities and percentages of the raw materials used in TRIM® CLEAN AMO™ “A maize ‘N Orange”™ are trade secrets. This information is being withheld as provided for in the Occupational Safety and Health Administration's Hazard Communication Rule (29 CFR 1910.1200).

3. HAZARDS IDENTIFICATION

Emergency overview Yellow-orange liquid
Avoid prolonged and/or repeated skin and inhalation contact with spray mist
Fire may produce carbon and nitrogen oxides

POTENTIAL HEALTH EFFECTS

Acute effects of overexposure	Eye contact	Irritant
	Skin contact	Nonirritant
	Inhalation	Nontoxic
	Ingestion	Nontoxic

Chronic effects of overexposure None currently known

Product/Ingredients listed as carcinogen or potential carcinogen? NTP Annual Report No IARC Monographs No
OSHA No

Signs and symptoms of exposure None

Medical conditions generally aggravated by exposure None known

4. FIRST AID MEASURES

Emergency and first aid procedures	Eyes	Flush immediately with cool, clean water for at least 15 minutes
	Skin	Wash with mild soap and warm water
	Inhalation	Move to fresh air
	Ingestion	If large quantities are ingested, contact a physician

In every case get medical attention as required

5. FIRE FIGHTING MEASURES

Flash point (test method) (169°F) (76°C) (COC) **Flammable limits** Not determined

Extinguishing media As appropriate for the surrounding fire: water (flood with water), dry chemical, CO₂, or "alcohol" foam

Special fire fighting procedures None **Unusual fire and explosion hazards** None

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled Mop up or use dry absorbent

7. HANDLING AND STORAGE

Precautions to be taken in handling and storing Avoid contact with eyes. Avoid prolonged or repeated skin contact with the concentrate. Wash thoroughly after handling. Do not swallow. Refer to container labels.

Other precautions This product contains amine. Do not add nitrite or other nitro sating agents to this product due to the potential for nitrosamine formation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection (Specify type) None

Ventilation

Local exhaust	Not normally required
Mechanical (General)	General room ventilation should be sufficient
Special	None
Other	None

Protective gloves Rubber, neoprene, or vinyl

Other protective equipment None

Eye protection Safety glasses

Exposure limits None established by ACGIH or OSHA for product as whole
Refer to Section 2

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow-orange liquid
Odor	Orange
pH of concentrate (as range)	7.5 – 8.5
Typical operating pH (as range)	7.5 – 8.5
Boiling point (ASTM D86)	208°F (98°C)
Freezing point	30°F (-1°C)
Solubility in water	Soluble
Specific gravity (H ₂ O=1)	0.990
V.O.C. Content (Method EPA 24)	Not determined
Evaporation rate (butyl acetate=1)	0.11

10. STABILITY AND REACTIVITY

Stability	Stable	Conditions to avoid	None
Incompatibility (materials to avoid)	Strong acids, bases, and oxidizers		
Hazardous combustion or decomposition products	Thermal decomposition (fire) may produce carbon and nitrogen oxides		
Hazardous polymerization	Will not occur	Conditions to avoid	None

11. TOXICOLOGICAL INFORMATION

Study	Test Animal	Results of similar product Concentrate
Acute inhalation toxicity	Rat	Nontoxic LC ₅₀ >200mg/l
Acute oral toxicity	Rat	Nontoxic LD ₅₀ >5000mg/kg
Acute dermal toxicity	Rabbit	Nontoxic LD ₅₀ >2000mg/kg
Primary skin irritation	Rabbit	Nonirritant PDI index=2.58
Primary eye irritation	Rabbit	Irritant
Repeat insult patch	Human volunteers	Nonirritant Nonsensitizer

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal method Must comply with local, state, and federal regulations. If pre-treatment is needed, chemical treatment or ultrafiltration may be used. Contact Master Chemical Tech Line (1-800-537-3365) for assistance.

14. TRANSPORT INFORMATION

Department of Transportation **DOT Hazard Class:** NA1993, COMBUSTIBLE LIQUID, N.O.S. (CONTAINS N-BUTYL -(S)- LACTATE), NA1993, PGIII; (Not regulated in containers <119 gallons)

15. REGULATORY INFORMATION

Resource Conservation and Recovery Act **EPA Hazardous Waste Number(s):** None
TRIM® CLEAN AMO™ “A maize ‘N Orange’”™ is not classified as a hazardous waste by EPA.

Toxic Substances Control Act All TRIM® CLEAN AMO™ “A maize ‘N Orange’”™ ingredients are listed on the TSCA Inventory of Chemical Substances.

Superfund Amendments and Reauthorization Act of 1986 TRIM® CLEAN AMO™ “A maize ‘N Orange’”™ does not contain any Section 302/304 Extremely Hazardous Substances or Section 313 Toxic Chemicals.

16. OTHER INFORMATION

	HMIS Hazard Index	Concentrate	NFPA Rating
(Health)	H = 1		H = 1
(Fire)	F = 2		F = 2
(Reactivity)	R = 0		R = 0
(Personal Protection)	PP = B (safety glasses and gloves)		Special hazards = none

Key 0 = minimal 1 = slight 2 = moderate 3 = serious 4 = severe

This information is intended solely for the use of individuals trained in the particular system.

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