

MATERIAL SAFETY DATA SHEET
TRIM® CLEAN 2029 “ONE STEP”

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name TRIM® CLEAN 2029 “One Step”
Material type Parts Washing Fluid with Corrosion Inhibitor
Classification/synonym(s) None/None
Product use Removal of metalworking fluids from machine tools and parts
Manufacturer address MASTER CHEMICAL CORPORATION
501 West Boundary
Perrysburg, OH 43551-1200
Emergency telephone 419-874-7902 **Fax number** 419-874-0684

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

The exact chemical identities and percentages of the raw materials used in TRIM® CLEAN 2029 “One Step” 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 liquid
No immediate hazard
Thermal decomposition (fire) may produce oxides of carbon and nitrogen

POTENTIAL HEALTH EFFECTS

Acute effects of overexposure	Eye contact	May cause irritation
	Skin contact	Nonirritant
	Ingestion	Not expected to cause irritation

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)	>212°F (100°C) COC	Flammable limits Not determined
Extinguishing media	As appropriate for the surrounding fire: water (flood with water), dry chemical, CO ₂ , 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
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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 amines. Do not add nitrite or other nitrosating 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	None	
Other protective equipment	Not normally required	
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 liquid
Odor	Mild

pH of concentrate (as range)	11.3 - 11.7
Typical Operating pH (as range)	10.6 - 11.0
Boiling point (ASTM D86)	208°F (98°C)
Freezing point	25°F (-4°C)
Solubility in water	Soluble
Specific gravity (H ₂ O=1)	1.094
V.O.C. Content (EPA Method 24)	0.768 lbs/gal
Evaporation rate (butyl acetate=1)	0.061

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Primary Dermal Irritation/Corrosion in Rabbits	Concentrate PII = 0.50 (nonirritant) 5% solution PII = 0 (nonirritant)
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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.
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14. TRANSPORT INFORMATION

Department of Transportation	DOT Hazard Class: None TRIM® CLEAN 2029 “One Step” is not classified as a hazardous material by DOT
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15. REGULATORY INFORMATION

Resource Conservation and Recovery Act	EPA Hazardous Waste Number(s): None TRIM® CLEAN 2029 “One Step” is not classified as a hazardous waste by EPA.
Toxic Substances Control Act	All TRIM® CLEAN 2029 “One Step” ingredients are listed on the TSCA Inventory of Chemical Substances.
Superfund Amendments and Reauthorization Act of 1986	TRIM® CLEAN 2029 “One Step” 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 = 0	F = 0
(Reactivity)	R = 0	R = 0
(Personal Protection)	PP = A (safety glasses)	Special hazards = none

Typical Working Solution

H = 1	H = 1
F = 0	F = 0
R = 0	R = 0
PP = A (safety glasses)	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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