

MATERIAL SAFETY DATA SHEET

Design Technology, Inc.

Product: **Formula #201**

Revision Date: **1/17/2011**

1. CHEMICAL PRODUCT & COMPANY INFORMATION

Product Identifier: **Formula #201**

General Use: **Detergent concentrate solution for Ultrasonic Cleaners to clean Carburetors & Small Parts**

Design Technology, Inc. 768 Burr Oak Drive

Westmont IL 60559 (U.S.A.)

Business Hours Phone: (630) 920 - 1300

www.TinyTach.com

Chemical Emergency only, 24 Hour / 7 Day Response Phone:

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	% by Wt.	Exposure Limits (ppm or mg/kg)			TLVA
			OSHA TWA	PEL	ACGIH TWA	
Ethoxylated Alcohols, C12 - C15	68131-39-5	7 - 10	150	N/Est	150	N/Est
C-21 dibasic fatty acid, potassium salt	68127-33-3	2 - 5	200	300(c)	50	N/Est
TetraPotassium PyroPhosphate	7320-34-5	2 - 5	5 mg/m ³	15 mg/m ³	3 mg/m ³	10 mg/m ³
Disodium Silicic Acid	6834-90-0	0 - 2	N/Est	5 mg/m ³ (c)	N/Est	5mg/m ³ (c)

N/Est = Not Established (c) = ceiling limit

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Slip and fall hazard. Harmful or fatal if swallowed. Eye, skin, gastrointestinal and respiratory tract contact irritant.

POTENTIAL HEALTH EFFECTS:

INHALATION: Liquid or aerosol mists will coat respiratory tract and cause irritation or asphyxiation.

EYE CONTACT: May cause severe irritation, tearing and possible corneal damage.

SKIN CONTACT: May cause drying, cracking, and dermatitis.

INGESTION: Nausea and vomiting. Potential aspiration hazard.

CHRONIC: No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen. Extensive and continued physical contact may cause skin rash and dermatitis.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. Clear and clean airways. If breathing has stopped, give artificial respiration and call for medical assistance.

EYE CONTACT: Remove all eyewear including contacts. Flush eyes including under eyelids with water for at least 15 minutes. Seek medical attention immediately if chemical burns occur or if irritation persists.

SKIN CONTACT: Wash with soap and water after removing contaminated clothing. Seek medical attention if irritation persists.

INGESTION: Do not induce vomiting. Get medical attention immediately.

5. FIRE FIGHTING INFORMATION AND MEASURES

FLASH POINT: 205°F minimum **METHOD:** Pensky-Martens

FLAMMABLE LIMITS: 1-13% **AUTOIGNITION TEMPERATURE:** Not Available

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, oxides of nitrogen, oxides of phosphorus.

EXTINGUISHING MEDIA RECOMMENDED: Water, dry chemical, Alcohol foam, CO₂. Allow other conditions define fire fighting method. Water may spread product and cause slippery surfaces as a safety hazard.

FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus and full protective equipment for all indoor and outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL (less than 5 gallons): Absorb with paper or other absorbent and place in a disposal container. Wash and rinse spill area to remove slippery residues creating a fall hazard. Prevent product and wash liquids from entering natural waterways.

LARGE SPILL (more than 5 gallons): Dike spill, absorb and contain as above. Dispose of at a licensed facility according to all applicable regulations.

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7. HANDLING AND STORAGE

HANDLING: Use in areas away from heat, sparks, or flames. Keep containers closed. Wash hands thoroughly after handling.

STORAGE: Preferably keep in cool, well-ventilated areas. Storage temperature range between 35°F and 120°F. Restore product temperature to between 50°F and 100°F before product usage. Shake well before opening after storage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS: General or local exhaust is generally not required if aerosol mists are not created.

RESPIRATORY PROTECTION: If Use a NIOSH/MSHA approved organic vapor cartridge or canister respirator if exposure limits are exceeded. Follow the OSHA guidelines in 29 CFR 1910.134.

SKIN PROTECTION: Use impervious gloves and an impervious gown (or impervious apron and sleeves).

EYE PROTECTION: Use chemical splash goggles. A face shield should also be used if splashes to the face are expected.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range:	214-284°F	Melting Range:	24°F - 32°F
Vapor Pressure:	10mm Hg	Vapor Density:	3.6
Solubility in Water:	total	Specific Gravity:	1.05
Odor:	slight or none	Appearance:	transparent blue liquid
pH:	Not Available	% Volatile by Volume:	80%, contains no Volatile Organic Compounds (VOC's)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): Heat, sparks, flames.

INCOMPATIBILITY: Strong acids or alkalis, or oxidizing agents, amines.

HAZARDOUS DECOMPOSITION: CO, CO₂, nitrogen oxides, phosphorus oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

No data for this product. Harmful to drink or consume.

12. ECOLOGICAL INFORMATION

No data for this product. Expected as toxic to aquatic organisms. May cause increased algae bloom due to elemental phosphorus content.

13. DISPOSAL CONSIDERATIONS

See Section 6.

14. TRANSPORTATION INFORMATION

DOT: Not regulated in package sizes less than 55 U.S. gallons / 208 Liters.

15. REGULATORY INFORMATION

TSCA: All ingredients are listed on the TSCA Inventory.

16. OTHER INFORMATION

NFPA HAZARD RATING: Health 1(s), Fire 1, Reactivity 1

KEY: (4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal)

(s) = Skin contact may significantly add to the overall exposure

NOTICE: The information herein is presented in good faith and believed to be accurate and complete as of the effective date shown above. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities with this product comply with all federal, state, and local laws.