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MATERIAL SAFETY DATA SHEET

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Form Number: 0056-1281

Product Identity: Aluminum Flux (1440-0012)

This MSDS is based on air/fuel or oxy/fuel process.
There may be other cautions for electric process.

SECTION I: Material Description

Chemical Name & Formula: Aluminum Flux TOT AK-1, See Section II
Product Use: Flux

SECTION II: Hazardous Ingredients/Identity Information

Hazardous Components	(Specific Chemical Identity) CAS No.	mg/m ³ OSHA PEL	mg/m ³ ACGIH TLV	Superfund RQ	%
Zinc Chloride (Fumes)*	7646-85-7	1	1	1000 lbs.	20
Bismuth Trichloride	7787-60-2	N/A	N/A	N/A	N/A
Inorganic Flourides	(Trade Secret)	2.5	2.5	N/A	N/A
Zinc*	7440-66-6	N/A	N/A	1000 lbs.	40

* The indicated toxic chemicals are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

SECTION III: Physical Data

Physical Form: Powder
Boiling Point: N/A
Melt Point: N/A
Vapor Pressure(mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation Rate(butyl acetate = 1): 0
Specific Gravity(H₂O = 1): N/A
Water Solubility: Partially
Color: Gray Powder
Odor: Low Odor

SECTION IV: Fire and Explosion Data

Flashpoint: Non-Flammable
Flammability Limits: LEL-N/A,UEL-N/A
Extinguishing media: N/A
Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: May release fumes of hydrogen chloride, ammonium chloride, zinc oxide, zinc chloride and ammonia when exposed to fire.

SECTION V: Reactivity Data

Stability: Stable
Conditions to avoid: Do not store unused, wet product. Slow evolution of flammable hydrogen gas may occur.
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Incompatibility (Materials to avoid): Cyanides, sulfides, acids, bases.

