

MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.
IDENTITY (As Used on Label and List): **Dysprosium nitride, powder and pieces**
Product Code: **D-MSDS0014** Reference #: **12019-88-4**

SECTION I - PRODUCT IDENTIFICATION Dysprosium nitride, powder and pieces

MANUFACTURER NAME AND ADDRESS:

ProChem, Inc.
826 Roosevelt Rd.
Rockford IL 61109

TELEPHONE NUMBERS:

CHEMTREC	(800)424-9300
ProChem, Inc.	(800) 795-8788
Local	() - 911
Poison/Emrgncy	

DATES:

Date Created:
12/10/1990
Revision: 12/21/1994
Printed: 10/02/2006

SYNONYMS

dysprosium nitride, dysprosium mononitride

CHEMICAL FAMILY: Metal nitride

DOT HAZARD LABEL: No data.

FORMULA: DyN

MOLECULAR WEIGHT: 176.50

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Dysprosium nitride, powder and pieces

HAZARDOUS COMPONENTS (CHEMICAL NAME)

<u>NAME:</u>	Dysprosium nitride	<u>PERCENTAGE:</u>	0.0 -100.0 %
<u>CAS #:</u>	12019-88-4	<u>ACGIH TLV:</u>	NE
<u>OSHA PEL:</u>	NE	<u>SEC.304 RO:</u>	No
<u>OTHER LIMITS:</u>	NE		
<u>SEC.302 (EHS):</u>	No		
<u>SEC.313:</u>	No		

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS Dysprosium nitride, powder and pieces

<u>PHYSICAL STATES:</u>	[] Gas , [] Liquid , [X] Solid
<u>BOILING POINT:</u>	N.A.
<u>MELTING POINT:</u>	N.A.
<u>SPECIFIC GRAVITY (WATER = 1):</u>	NE
<u>DENSITY:</u>	No data.
<u>VAPOR PRESSURE (VS. AIR OR MM HG):</u>	NA
<u>VAPOR DENSITY (VS. AIR = 1):</u>	NA

EVAPORATION RATE (VS BUTYL ACETATE=1): NA
SOLUBILITY IN WATER: NE
OTHER SOLUBILITY NOTES: May decompose to ammonia gas
PERCENT VOLATILE: N.A.
PH: No data.
APPEARANCE AND ODOR

Gray powder and pieces, may have a slight ammonia odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
Dysprosium nitride, powder and pieces

FLASH PT: N.A. **METHOD USED:** NON-FLAMMABLE
EXPLOSIVE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA

USE: Not applicable. Use fire extinguishing agent for surrounding material and type of fire.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, dysprosium nitride may emit toxic fumes of NO_x and ammonia.

SECTION V - REACTIVITY DATA
Dysprosium nitride, powder and pieces

STABILITY: Unstable [] Stable [X]
CONDITIONS TO AVOID - INSTABILITY

None

INCOMPATIBILITY - MATERIALS TO AVOID

None recorded

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Ammonia and hydrogen gas.

HAZARDOUS POLYMERIZATION: Will occur [] Will not occur [X]

CONDITIONS TO AVOID - HAZARDOUS POLYMERIZATION

None

SECTION VI - HEALTH HAZARD DATA
Dysprosium nitride, powder and pieces