

LECO CORPORATION -- 501-636 VANADIUM PENTOXIDE

=====
MSDS Safety Information
=====

FSC: 6630
NIIN: 01-300-6118
MSDS Date: 12/01/1994
MSDS Num: BZGBN
Product ID: 501-636 VANADIUM PENTOXIDE
MFN: 03
Kit Part: Y
Responsible Party
Cage: FO436
Name: LECO CORPORATION
Address: 3000 LAKEVIEW AVE
City: ST JOESP
H MI 49085-2319
Info Phone Number: 616-983-5531
Emergency Phone Number: 616-983-5531
Preparer's Name: DUANE OSTENSON
Review Ind: Y
Published: Y

=====
Preparer Co. when other than Responsible Party Co.
=====

Cage: FO436
Assigned Ind: Y
Name: LECO CORPORATION
Address: 3000 LAKEVIEW AVENUE
Box: NK/
City: ST. JOSEPH MI 49085

=====
Contractor Summary
=====

Cage: 94174
Name: LECO CORPORATION
Address: 3000 LAKEVIEW AVE.
City: ST JOSEPH MI 49085-2396
Phone: 616-983-5531
Cage: FO436
Name: LECO CORPORATION
Address: 3000 LAKEVIEW AVENUE
Box: NK/
City: ST. JOSEPH MI 49085
Phone: (616) 983-5531

=====
Item Description Information
=====

Item Manager: FLZ
Item Name: ANALYZER,GAS
Unit of Issue: EA
UI Cont

ainer Qty: 1

=====
Ingredients
=====

Cas: 1314-62-1
RTECS #: YW1355000
Name: VANADIUM
% Wt: 99.5
OSHA PEL: 0.5 MG/CUM
ACGIH TLV: 0.05 MG/CUM (DUST)
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS
=====

Health Hazards Data
=====

Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogeni
city Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: MODERATE TO SEVERE IRRITANT & POSSIBLE CORNEAL INJURY. SKIN: HARMFUL, MAY BE ABSORBED. MAY CAUSE LOCAL IRRITATION. INHALATION: CAN IRRITATE THE RESPIRATORY TRACT. OVEREXPOSURE MAY RESULT IN CHRO NIC BRONCHITIS & ALLERGIC SKIN REACTION, & POSSIBLE LUNG INJURY IN SUSCEPTIBLE INDIVIDUALS, EFFECTS ARE REVERSIBLE.
Explanation Of Carcinogenicity: NONE
Signs And Symptoms Of Overexposure: IRRITATION, REDDENING, ITCHING , CHEST TIGHTNESS, WHEEZING, COUGHING, ABDOMINAL DISCOMFORT, NAUSEA, VOMITING, CRAMPS
Medical Cond Aggravated By Exposure: PERSONS W/ASTHMATIC CONDITIONS.
First Aid: EYES: FLUSH W/WATER FOR 10-20 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: LEAVE AREA & GET FRESH AIR. HELP BREATHING IF NECESSARY. INGESTION: GIVE 2 GLASSES OF WATER. INDUCE VOMITING IF CONSCIOUS. OB TAIN MEDICAL ATTENTION IN ALL CASES.

=====
Handling and Disposal
==
=====

Spill Release Procedures: MATERIAL SHOULD BE SWEEPED UP/VACCUMED, USING VENTILATION TO CONTROL THE LEVEL OF AIRBORNE DUST. AVOID USING COMPRESSED AIR/ANY METHOD THAT CREATES AIRBORNE DUST, PERSONNEL SHOULD WEAR SKIN, EYE & RESPI RATORY PROTECTION.
Waste Disposal Methods: DISPOSE OF SOLID MATERIALS, RESIDUES & EMPTY CONTAINERS IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS. DON'T USE PROCEDURES THAT GENERATE DUST. NA918

8. UN2862.

Handling And Storage Precautions: KEEP CONTAINER DRY IN CLOSED CONTAINERS.

Other Precautions: PERSONNEL SHOULD CLEAN UP AFTER HANDLING THE PRODUCT &
AVOID AREAS WHERE FUME/DUST IS PRESENT.

=====
Fire and Explosion Hazard Information
=====

Lower Limits: NONE

Upper Limits: NONE

Extinguishing Media: USE EXTINGUISHING MEDIA SUITABLE FOR TYPE OF SURROUNDING
FIRE.

Fire Fighting Procedures:

AVOID PROCEDURES THAT MAY CREATE DUST. FIRES INVOLVING VANADIUM PENTOXIDE, WEAR FULL PROTECTIVE EQUIPMENT
W/POSITIVE-PRESSURE BREATHING APPARATUS.

Unusual Fire/Explosion Hazard: NO FIRE HAZARD.

=====
Control Measures
=====

Respiratory Protection: USE MSHA APPROVED RESPIRATORS IN DUSTY AREAS.

Ventilation: SUFFICIENT VENTILATION TO KEEP EXPOSURE TO DUST BELOW EXPOSURE
LIMITS.

Protective

Gloves: RECOMMENDED

Eye Protection: REQUIRED

Other Protective Equipment: DUST-RESISTANT SAFETY GLASSES W/SIDE SHIELDS,
FACILITIES TO FLUSH EYES W/WATER.

Work Hygienic Practices: AVOID CONTAMINATION OF WORK CLOTHING.

=====
Physical/Chemical Properties
=====

M.P/F.P Text: 1274F

Decomp Text: 3182F

Vapor Pres: 0

Spec Gravity: 3.36

Solubility in Water: 0.8

Appearance and Odor: YELLOW ORANGE POWDER
W/NO ODOR

=====
Reactivity Data
=====

Stability Indicator: YES

Stability Condition To Avoid: MOISTURE

Materials To Avoid: CHLORINE/HYDROCHLORIC ACID

Hazardous Decomposition Products: VANADIUM OXYTRICHLORIDE

Hazardous Polymerization Indicator: NO

=====
Toxicological Information
=====

=====
Ecological Information
=====

=====
MSDS Transport Information
=====

=====
Regulatory Information
=====

=====
Other Information
=====

=====
HAZCOM Label
=====

Product ID: 501-636 VANADIUM PENTOXIDE

Cage: FO436

Assigned IND: Y

Company Name: LECO CORPORATION

Street: 3000 LAKEVIEW AVENUE

PO Box: NK/

City: ST. JOSEPH MI

Zipcode: 49085

Health Emergency Phone: 616-983-5531

Label Required IND: Y

Date Of Label Review: 12/16/1998

Status Code: C

Label Date: 12/16/1998

Origination Code: G

Hazard And Precaution

s: EYES: MODERATE TO SEVERE IRRITANT & POSSIBLE

CORNEAL INJURY. SKIN: HARMFUL, MAY BE ABSORBED. MAY CAUSE LOCAL IRRITATION.
INHALATION: CAN IRRITATE THE RESPIRATORY TRACT. OVEREXPOSURE MAY RESULT IN
CHRONIC BRONCHITIS & ALLERGIC SKIN REACTION, & POSSIBLE LUNG INJURY
IN SUSCEPTIBLE INDIVIDUALS, EFFECTS ARE REVERSIBLE. IRRITATION,
REDDENING, ITCHING, CHEST TIGHTNESS, WHEEZING, COUGHING, ABDOMINAL DISCOMFORT,
NAUSEA, VOMITING, CRAMPS

=====
=====
Disclaimer (provided with this information by the compiling agencies): This
information is formulated for use by elements of the Department of Defense.
The United States of America in no manner whatsoever expressly or implied
warrants, states, or intends said information to have any application, use or
viability by or to any person or persons outside the Department of Defense
nor any person or persons contracting with any instrumentality of the United
States of Ame

rica and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.