

STERLING WINTHROP INC. -- OMNISCAN -- -

=====
===== Product Identification =====

Product ID:OMNISCAN
MSDS Date:10/01/1992
FSC:NIIN:Submitter:F BT
Status Code:A
MSDS Number: CLBPC
=== Responsible Party ===
Company Name:STERLING WINTHROP INC.
Address:90 PARK AVE
City:NEW YORK
State:NY
ZIP:10016
Country:US
Info Phone Num:212-907-2000
Emergency Phone Num:212-907-2000
CAGE:0X7D0
=== Contractor Identification ===
Company Name:STERLING WINTHROP INC.
Address:90 PARK AVE
Box:City:NEW YORK
State:NY
ZIP:10016
Country:US
Phone:212-907-2000
CAGE:0X7D0

=====
===== Composition/Information on Ingredients =====

Ingred Name:GADODIAMIDE
CAS:122795-43-1
Fraction by Wt: 287% MG/ML

Ingred Name:CALDIAMIDE SODIUM
CAS:122760-91-2
Fraction by Wt: 12% MG/ML

Ingred Name:HYDROCHLORIC ACID
CAS:7647-01-0
RTECS #:MW4025000
Fraction by Wt: PH ADJUST
OSHA PEL:C7 MG/M3;C5 PPM
ACGIH STEL:C7.5 MG/M3;C5 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM HYDROXIDE
CAS:1310-73-2
RTECS #:WB4900000
Fraction by Wt: PH ADJUST
OSHA PEL:2 MG/M3
ACGIH STEL:C2 MG/M3
EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000

=====
===== Hazards Identification =====

LD50 LC50 Mixture:19.7 G/KG MOUSE
Health Hazards Acute and Chronic:LOW HEALTH HAZARD. LOW TOXIC HAZARD.
LOW INGESTION HAZARD.
Effects of Overexposure:CHRONIC EXPOSURE INFORMATION BASED ON THE
TOXICOLOGICAL PROPERTIES OF THE FORMULATION BY INTRAVENOUS
INJECTION: MODERATE CHRONIC TOXICITY. MAY CAUSE KIDNEY DAMAGE.
SUBACUTE GASTRITIS, TESTICULAR GIANT CELL DEGENERATION & SEVERE
DERMATITIS MAY RESULT FROM ZINC DEFICIENCY DUE TO CHELATION BY
CALDIAMIDE SODIUM.

=====
===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH WITH WATER FOR
AT LEAST 15 MINUTES. SKIN: WASH AREA WITH SOAP AND WATER
IMMEDIATELY. INGESTION: IMMEDIATELY GIVE LARGE AMOUNTS OF WATER.
IN ALL CASES, SEEK IMMEDIATE MEDICAL ATTENTION! NOTE TO
PHYSICIAN: GENERAL ADVERSE REACTIONS TO IMAGING AGENTS ARE MILD TO
MODERATE IN NATURE.

=====
===== Fire Fighting Measures =====

Unusual Fire/Explosion Hazard:THIS INFORMATION IS AQUEOUS BASED AND
DOES NOT PRESENT ANY SIGNIFICANT FIRE AND EXPLOSION HAZARDS.

=====
===== Accidental Release Measures =====

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO AVOID INHALATION
OR EYE/SKIN CONTACT. STOP THE SOURCE OF RELEASE. SMALL SPILLS MAY
BE FLUSHED INTO SANITARY SEWER WITH COPIOUS AMOUNTS OF WATER.
LARGE SPILLS MUST BE CONTAINED AS WASTE MATERIALS.

=====
===== Handling and Storage =====

Handling and Storage Precautions:AVOID BREATHING AEROSOL, AND AVOID
CONTACT WITH EYES, SKIN, AND CLOTHING. KEEP CONTAINER CLOSED AND
PROTECT FROM CONTAMINATION. STORE IN A COOL, DRY PLACE. KEEP FROM
FREEZING. LABEL ALL CONTAINERS WITH HAZARD INFORMATION WHENEVER
THE SUBSTANCE IS TRANSFERRED FROM ORIGINAL CONTAINER.
Other Precautions:THIS FORMULATION IS AQUEOUS BASED & DOESN'T PRESENT
ANY SIGNIFICANT FIRE & EXPLOSION OR REACTIVITY HAZARDS.

=====
===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE
CONCENTRATIONS BELOW EXPOSURE CONCENTRATIONS, AN APPROVED
RESPIRATOR SHOULD BE WORN. MANAGERS ASSIGNING THE USE OF
RESPIRATORS MUST ENSURE COMPLIANCE WITH THE ELEMENTS OF
RESPIRATORY PROTECTION REQUIREMENTS.

Ventilation:USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL THE GENERATION OF AEROSOL BELOW EXPOSURE LIMITS.

Other Protective Equipment:EYE BATH, SAFETY SHOWER, AND WASHING FACILITIES SHOULD BE READILY AVAILABLE IN THE IMMEDIATE AREA.

Work Hygienic Practices:GOOD INDUSTRIAL PRACTICE SHOULD BE FOLLOWED, WHICH INCLUDES PREVENTING CONTACT.

Supplemental Safety and Health

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

pH:5.5-7.0

Viscosity:@ 20 DEG C: 2.0

Appearance and Odor:CLEAR LIQUID

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

Toxicological Information:EXPECTED TO HAVE LOW TOXICITY. GENERAL ADVERSE REACTIONS IN HUMANS AND ANIMAL STUDIES WERE MILD TO MODERATE IN NATURE. THESE MAY INCLUDE NAUSEA, VOMITING, CARDIOVASCULAR EFFECTS, DIZZINESS, HEADACHE, AND KIDNEY EFFECTS. ONLY KIDNEY EFFECTS ARE THOUGHT TO BE DUE TO THE DRUG ITSELF. HEADACHE, LIGHTHEADEDNESS, DIZZINESS, DROWSINESS, AND NAUSEA ARE LIKELY RELATED TO THE HYPERTONIC PROPERTIES OF THE FORMULATION ADMINISTERED VIA THE INTRAVENOUS ROUTE. THESE EFFECTS ARE NOT EXPECTED TO BE OBSERVED IN THE OCCUPATIONAL SETTING.

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

Ecological:ECOLOGICAL PROPERTIES ARE BASED ON STUDIES WITH THE ACTIVE INGREDIENT, GADODIAMIDE. MICROBIAL GROWTH INHIBITION:>1000 MG/L; AEROBIC BIODEGRADATION: 121 HRS; PHOTODEGRADATION: NOT EXPECTED TO PHOTODEGRADATE; ACUTE AQUATIC TOXICITY:>1000 MG/L. WASTEWATER TREATMENT EFFECTS: NO NEGATIVE IMPACT PROJECTED ON WASTEWATER PRETREATMENT, BIOTREATMENT, OR ELEMENTARY NEUTRALIZATION FACILITIES DURING NORMAL OPERATION.

===== Disposal Considerations =====

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL ARE SUBJECT TO FEDERAL, STATE, AND/OR LOCAL LAWS. PACK WASTE PRODUCT INTO SUITABLE CONTAINER WITH ABSORBENT MATERIAL. COLLECT THE SUBSTANCE IN IMPERVIOUS WASTE CONTAINERS. SEAL AND LABEL THE WASTE CONTAINER APPROPRIATELY FOR SAFE HANDLING AND DISPOSAL. BURN IN CHEMICAL INCINERATOR WITH CONTROL DEVICES.

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

Transport Information:NOT RESTRICTED.

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

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 this information to be accurate and

disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.