

ELANCO PRODUCTS CO DIV LILLY ELI AND CO -- SURFLAN A.S. -- 6840-01-318-7417

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

Product ID: SURFLAN A.S.

MSDS Date: 08/03/1992

FSC: 6840

NIIN: 01-318-7417

MSDS Number: BHXRD

=== Responsible Party ===

Company Name: ELANCO PRODUCTS CO DIV LILLY ELI AND CO

Address: 3901 W 86TH ST

City: INDIANAPOLIS

State: IN

ZIP: 46268-1702

Country: US

Info Phone Num: 317-276-3000

Emergency Phone

Num: 317-276-2000

CAGE: 21626

=== Contractor Identification ===

Company Name: ELANCO PRODUCTS CO DIV LILLY ELI AND CO

Address: 3901 W 86TH ST

Box: City: INDIANAPOLIS

State: IN

ZIP: 46268-1702

Country: US

Phone: 317-276-2000

CAGE: 21626

Company Name: SILFEN LEO INC, INDUSTRIAL CHEMICAL DIV

Address: 80 BUSINESS PARK DR SUITE 206

Box: City: ARMONK

State: NY

ZIP: 10504-1710

Country: US

Phone: 800-431-1075

CAGE: 1GJ71

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

Ingred Name: ORYZALIN(3,5-DINITRO)

-N*4.N*4-DIPROPYLSULFANILAMIDE)

CAS:19044-88-3

Fraction by Wt: 40.4%

Ingred Name:OTHER INGREDIANT

Fraction by Wt: 59.6%

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES- SLIGHT TRANSIENT IRRITATION.

SKIN- PROLONGED EXPOSURE MAY CAUSE IRRITATION OR ALLERGIC REACTIONS
IN SOME INDIVIDUALS. INGESTION- SINGLE DOSE TOXICITY I

S LOW.

INHALATION- HIGHER TEMPERATURES MAY GENERATE VAPOR LEVELS
SUFFICIENT TO CAUSE IRRITATION AND OTHER EFFECTS.

Explanation of Carcinogenicity:DATA PER MGF MSDS.

Effects of Overexposure:SEE HEALTH HAZARDS DATA.

Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS MAY BE
WORSEN.

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

First Aid:EYES & SKIN- FLUSH WITH PLENTY OF WATER. GET MEDICAL
ATTENTION IF IRRITATION DEVELOPS. INGESTION- DO NOT INDUCE
VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER. INHALATION-
REMOVE INDIVIDUAL TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING
DIFFICULTY OCCURS. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION
IMMEDIATELY.

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

Flash Point:>200F,>93C

Extinguishing Media:USE SUITABLE MEDIA FOR SURROUNDING FIRES.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING

CHEMICAL FIRE. USE WATER

SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:THIS MATERIAL WILL NOT BURN UNTIL A

SUFFICIENT AMOUNT OF WATER HAS EVAPORATED. THE EXPLOSIVE POTENTIAL
OF ORYZALIN AS AN AIRBORNE DUST IS RATED AS SEVERE.

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTION;USE SUITABLE
INERT ABSORBENT MATERIAL AND COLLECT FOR PROPER DISPOSAL IN AN
APPROVED CONTAINER.

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

Handling and Storage Precautions:STORE IN COOL, DRY AND WELL VENTILATED AREA.KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:WASH THOROUGHLY AFTER EACH USE.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR VAPORS/MIST IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation:PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL

AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES/GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHINGS.EYE-WASH FACILITIES,SAFETY SHOWER.

Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN;DO NOT BREATHE VAPORS/MIST/DUST.WASH THOROUGHLY AFTER EACH USE;DO NOT EAT,DRINK,SMOKE.

Supplemental Safety and Health

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

HCC:T5

Boiling Pt:B.P. Text:212F,10

0C

Vapor Pres:23 MMHG

Vapor Density:1.178

Spec Gravity:1.138-1.239

pH:5-6.8

Solubility in Water:MISCIBLE

Appearance and Odor:BRIGHT ORANGE OPAQUE LIQUID WITH A SLIGHT AROMATIC ODOR.

=====
Stability and Reactivity Data
=====

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:EXTREME TEMPERATURES.

Hazardous Decomposition Products:IF PRODUCT IS ALLOWED TO DRY, WILL EMIT TOXIC VAPORS AS IT BURNS.

=====
Disposal Con

siderations =====

Waste Disposal Methods:CONSULT LOCAL AUTHORITIES;DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS

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.