

WARDS NATURAL SCIENCE ESTABLISHMENT INC -- N-HEXANE,39-1515 -- 6810-00-312-7109  
===== Product Identification =====

Product ID:N-HEXANE,39-1515

MSDS Date:09/13/1995

FSC:6810

NIIN:00-312-7109

MSDS Number: CCLRC

=== Responsible Party ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692

Country:US

Info Phone Num:716-359-2502/2

26-6177 (NIGHT)

Emergency Phone Num:716-359-2502/800-424-9300(CHEMTREC)

Preparer's Name:MICHAEL RASZEJA

CAGE:63759

=== Contractor Identification ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692-9012

Country:US

Phone:(716) 359-2502

CAGE:63759

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

Ingred Name:HEXANE (N-HEXANE) (CERCLA)

CAS:110-54-3

RTECS #:MN9275000

Fraction by Wt: 99- 100%

Other REC Li

imits:NONE RECOMMENDED  
OSHA PEL:500 PPM  
ACGIH TLV:50 PPM; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:CYCLOHEXANE (SARA 313) (CERCLA)  
CAS:110-82-7  
RTECS #:GU6300000  
Fraction by Wt: 0 - 1%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:300 PPM  
ACGIH TLV:300 PPM, 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50(ORAL,RAT) HEXANE 28710 MG/KG(RTECS)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Re

ports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, CNS,  
RESPIRATOR & GI TRACTS. ACUTE- CAUSES SEVERE EYE IRRITATION.  
PROLONGED/REPEATED SKIN CONTACT CAN CAUSE IRRITATION, DERMATITIS.  
MAY BE ABSORBED THROUGH SKIN. INHALATION C AN CAUSE IRRITATION, CNS  
EFFECTS. INGESTION CAN CAUSE GI TRACT IRRITATION. ASPIRATION  
HAZARD. CHRONIC- NERVE DAMAGE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, DRY SK

IN, TEARING, BLURRED VISION,

REDNESS, DEFATTING, DERMATITIS, HEADACHE, DIZZINESS, WEAKNESS,  
FATIGUE, NAUSEA, VOMITING, DIARRHEA, UNCONSCIOUSNESS

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING  
DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, CNS MAY HAVE  
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH  
AI

R. PROVIDE CPR/OXYGEN IF NEEDED. EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. REMOVE CONTAMINATED CLOTHING. WASH BEFORE REUSE. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, RINSE MOUTH WITH WATER. GET MEDICAL ATTENTION.

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

Flash Point Method:TOC

Flash Point:-7F,-22C

Autoignition Temp:Autoignition Temp Text:437F

Lower Limits:1.08%

Upper Limits:8.0%

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, FOAM.

WATER MAY BE

INEFFECTIVE, BUT SHOULD BE USED TO COOL FIRE-EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. SEE 1993 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.6, GUIDE NO 27.

Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. REMOVE SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND/CLAY. PLACE IN CONTAINER FOR DISPOSAL. WASH SPILL SITE AFTER PICK UP IS COMPLETE. PREVENT LIQUID FROM ENTERING SEWER

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN VENTILATED AREA AWAY FROM IGNITION SOURCES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:HIGHLY FLAMMABLE. USE IN WELL VENTILATED AREA/HOOD. AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN/ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. LAUNDRY BEFORE REUSE.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE

SURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR AIR-SUPPLIED RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.  
Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).  
Protective Gloves:NITRILE RUBBER  
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES  
Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE. LAB COAT  
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.  
Supplemental Safety and Health

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

HCC:F2  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:=68.C, 154.4F  
Melt/Freeze Pt:=-94.C, -137.2F  
Vapor Pres:100 @60.4F  
Vapor Density:3.0  
Spec Gravity:0.660  
Evaporation Rate & Reference: