

GREAT LAKES CHEMICAL CORPORATION -- HYPERSOLVE NPB -- 6850-01-450-6165

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

Product ID:HYPERSOLVE NPB

MSDS Date:04/09/1998

FSC:6850

NIIN:01-450-6165

Status Code:A

MSDS Number: CJDRF

=== Responsible Party ===

Company Name:GREAT LAKES CHEMICAL CORPORATION

Address:1801 HIGHWAY 52 NW

Box:2200

City:WEST LAFAYETTE

State:IN

ZIP:47906

Country:US

Info Phone Num:765-497-6100/FX

765-497-6123

Emergency Phone Num:765-497-6100

CAGE:2E394

=== Contractor Identification ===

Company Name:ECOLINK INC

Address:1481 ROCK MOUNTAIN BLVD

Box:City:STONE MOUNTAIN

State:GA

ZIP:30083-1505

Country:US

Phone:800-886-8240/770-621-8240

CAGE:0WU71

Company Name:GREAT LAKES CHEMICAL CORP

Address:1801 HWY 52 NW

Box:2200

City:WEST LAFAYETTE

State:IN

ZIP:47996-2200

Country:US

Phone:765-497-6100/800-949-5167

CAGE:2E394

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

Ingred Na

me:1-BROMOPROPANE

CAS:106-94-5

RTECS #:TX4110000

Code:F

= Wt:95.

Ingred Name:1-BUTYLENE OXIDE

CAS:106-88-7

RTECS #:EK3675000

< Wt:1.

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:DIMETHOXYMETHANE

CAS:109-87-5

RTECS #:PA8750000

< Wt:5.

OSHA PEL:3100 MG/M3;1000 PPM

ACGIH TLV:3110 MG/M3;1000 PPM

Ingred Name:T-BUTANOL

CAS:75-65-0

RTECS #:EO1925000

< Wt:5.

OSHA PEL:300 MG/M3;100 PPM

ACGIH TLV:303 MG/M3;100 PPM

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

Routes o

f Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:INGESTION-SWALLOWING LARGE AMOUNTS MAY BE HARMFUL, BY CAUSING GASTROINTESTINAL IRRITATION.

INHALATION-BREATHING THIS MATERIAL MAY BE HARMFUL, CAUSING NOSE, THROAT, RESPIRATORY TRACT IRRITATION AND EFF ECTING THE CENTRAL NERVOUS SYSTEM. EYES-IRRITANT. LIQUID CONTACT WILL IRRITATE EYES. SKIN-MAY CAUSE MILD IRRITATION.

Explanation of Carcinogenicity:NOT LISTED.

Effects of Overexposure:INHALATION-CAUSING DROWSINESS, DIZZINESS AND/OR POSSIBLE UNCONSCIOUSNESS. CHEMICAL BURNS ARE POSSIBLE. EYE-CAUSE STINGING, TEARING AND REDNESS. SKIN-MAY CAUSE REDNESS AND BURNING.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE PRE-EXISTING DISEASE OF THE SKIN, LIVER, KIDNEY AND RESPIRATORY SYSTEM.

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

First Aid:INGESTION-SEEK MEDICAL ATTENTION IMMEDIATELY. IF INDIVIDUAL

S DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON LEFT SIDE WITH HEAD DOWN. CONTACT MEDICAL FACILITY OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. INHALATION-REMOVE TO FRESH AIR, IF BREATHING IS DIFFICULT GIVE OXYGEN. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND QUIET. SEEK MEDICAL ATTENTION. EYES-IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 15 MIN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN-WASH WITH SOAP AND WATER. IF SYMPTOMS PERSISTS, SEEK MEDICAL ATTENTION.

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

Lower Limits:~3.8

Upper Limits:~7.5

Extinguishing Media:ALL CONVENTIONAL MEDIA ARE SUITABLE.

Fire Fighting Procedures:KEEP FIRE EXPOSED CONTAINERS COOL WITH WATER. FIREFIGHTERS SHOULD WEAR SCBA WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE W/APPROPRIATE GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:MATERIAL FORMS A FLAMMABLE MIX WITH AIR IN A NARROW FLAMMABILITY RANGE (~3.8-7.5% VOL). CONTAINERS EXPOSED TO FLAME/HIGH HEAT MAY EXPLODE, COOL CONTAINERS EXPOSED TO FIRE WITH WATER. IN FIRE, TOXIC GASES MAY BE RELEASED.

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

Spill Release Procedures:SMALL-ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.

=====

Handling and Storage =====

Handling and Storage Precautions:MATERIAL SHOULD BE STORED IN A COOL, DRY AREA. AEROSOL CONTAINERS MAY EXPLODE WHEN EXPOSED TO TEMPERATURES AT OR ABOVE 120F. SINCE EMPTY CONTAINERS RETAIN PRODUCT RESIDUE, ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED. ALL METAL PAILS OR DRUMS SHOULD BE GROUNDED &/OR BONDED.

Other Precautions:KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

===== Exposure Controls/

Personal Protection =====

Respiratory Protection:NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR/MIST IS PRESENT USE NIOSH CERTIFIED VAPOR MASK.

Ventilation:LOCAL EXHAUST/HOOD OR FAN MAY BE USED; ADEQUATE VENTILATION IS EXTREMELY IMPORTANT.

Protective Gloves:BUTYL RUBBER GLOVES.

Eye Protection:SAFETY GLASSES AND SPLASH PROTECTION REQUIRED.

Other Protective Equipment:NONE REQUIRED UNDER NORMAL USE.

Work Hygienic Practices:PROPER VENTILATION IS REQUIRED. AVOID BREATHING

CONCENTRATED VAPORS/FUMES. TREAT THIS CHEMICAL WITH RESPECT AND FOLLOW ALL MSDA INSTRUCTIONS.

Supplemental Safety and Health

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

HCC:V1

Boiling Pt.=71.1C, 160.F

B.P. Text:@760MMHG

Melt/Freeze Pt:M.P/F.P Text:-110

Vapor Pres:MMHG: 111MMHG@20C

Vapor Density:AIR=1:4.25

Spec Gravity:H2O=1:1.33

Solubility in Water:0.25G 100ML@20C

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC ODOR

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

Stability Indicator/Materials to Avoid:YES

NOT COMPATIBLE WITH CERTAIN PLASTICS AND RUBBER. TEST ALL NON-METALLICS PRIOR TO USE. AVOID STRONG OXIDIZERS, ACIDS AND BASES, ACID CHLORIDES AND ANHYDRIDES.

Stability Condition to Avoid:SOURCES OF IGNITION SUCH AS SPARKS, HOT SPOTS, WELDING, FLAMES AND CIGARETTES.

Hazardous Decomposition Products:MAY FORM HYDROGEN BROMIDE, BROMINE AND OXIDES OF CARBON.

===== Toxicological Informatio

n =====

Toxicological Information:THE MINOR INGREDIENT, 1,2-BUTYLENE OXIDE IS CLASSIFIED BY IARC AS A GROUP 3 MATERIAL WHICH EXHIBITS EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS AND NO HUMAN DATA.

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

Waste Disposal Methods:HYPER SOLVE MAY BE DISPOSED OF AS AN INDUSTRIAL WASTE IN A MANNER ACCEPTABLE TO GOOD WASTE MANAGEMENT PRACTICES AND IN COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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

Transport Information:DOT REGULATED: NO. DOT SHIPPING NAME: CONSUMER COMMODITY.

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

SARA Title III Information:1,2-BUTYLENE OXIDE AND T-BUTANOL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313.

Federal Regulatory Information:1,3 BUTYLENE OXIDE IS A CERCLA REGULATED MATERIAL, RQ 100 LBS. ALL MATERIALS IN PRODUCT ARE TSCA LISTED.

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.