

===== MSDS
Safety Information
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FSC: 6850

MSDS Date: 04/19/1988

MSDS Num: BJSMX

Submitter: F BT

LIIN: 00F013578

Tech Review: 01/02/1991

Status CD: C

Product ID: ASSAULT

MFN: 01

Article: N

Kit Part: N

Responsible Party

Cage: FO664

Name: HILLYWARD CHEMICAL CO

Address: 302 NORTH FOURTH STREET

Box: N/K

City: ST. JOSEPH

State: MO

Zip: 64502

Country: NK

Info Phone Number: (816) 233-1321

Emergency Phone Number: (816) 233-1321

Preparer's Name: N/P

Proprietary Ind: N

Review Ind: Y

Published: Y

Special Project CD: N

===== Preparer
Co. when other than Responsible Party Co.
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Cage: FO664

Assigned Ind: Y

Name: HILLYWARD CHEMICAL CO

Address: 302 NORTH FOURTH STREET

Box: N/K

City: ST. JOSEPH

State: MO

Zip: 64502

===== Contractor
Summary
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Cage:28745

Name:HILLYARD INDUSTRIES

Address:302 NORTH FOURTH STREET

City:ST JOSEPH

State:MO

Zip:64501

Country:US

Phone:816-233-1321 (EXT 2303)

Cage:FO664

Name:HILLYWARD CHEMICAL CO

Address:302 NORTH FOURTH STREET

City:ST. JOSEPH

State:MO

Box:N/K

Zip:64502

Country:NK

Phone:(816) 233-1321

===== Ingredients
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Cas: 111-76-2

Code: M

RTECS #: KJ8575000

Code: M

Name: 2-BUTOXYETHANOL

% Text: 20-25%

Environmental Wt:

Other REC Limits: 25 PPM (SKIN)

OSHA PEL: S, 50 PPM

Code: M

OSHA
STEL:

Code:

ACGIH TLV: S, 25 PPM; 9293

Code: M

ACGIH N/P
STEL:

Code:

EPA Rpt Qty:

DOT Rpt
Qty:

Ozone Depleting Chemical: N

Cas: 141-43-5

Code: M

RTECS #: KJ5775000

Code: M

Name: ETHANOLAMINE

% Text: 10-15%

Environmental Wt:

Other REC Limits: 3 PPM

OSHA PEL: 3 PPM/6 STEL

Code: M

OSHA
STEL:

Code:

ACGIH TLV: 3 PPM/6 STEL; 9192

Code: M

ACGIH N/P
STEL:

Code:

EPA Rpt Qty:

DOT Rpt
Qty:

Ozone Depleting Chemical: N

Hazards Data

Health

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LD50 LC50 Mixture N/K

Route Of Entry Inds – Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds – NTP: NO

IARC: NO

OSHA: NO

Health Hazards Acute And Chronic

INHALATION: CORROSIVE TO ALL BODY TISSUES. HIGH CONCENTRATIONS OF VAPORS RESULTS IN RESPIRATORY IRRITATION, NARCOSIS, HEADACHE, NAUSEA, DIZZINESS, HEMATURIA & DAMAGE TO LIVER & KIDNEYS. SKIN: DERMATIT IS.

Explanation Of Carcinogenicity

NONE

Signs And Symptions Of Overexposure

SKIN: BUTYL CELLOSOLVE IS READILY ABSORBED THROUGH THE SKIN IN TOXIC AMOUNTS.

Medical Cond Aggravated By Exposure

REPEATED EXPOSURE MAY DAMAGE THE BLOOD.

First Aid

INHALATION: REMOVE TO FRESH AIR. SKIN & EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS. INGESTION: GIVE LARGE AMOUNTS OF WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures

ABSORB LARGE SPILLS W/FLOOR DRY MATERIAL. SMALL SPILLS: FLUSH W/WATER & PICK UP WITH MOP & WET VACUUM.

Neutralizing Agent

N/K

Waste Disposal Methods

DISPOSE OF IN ACCORDANCE WITH STATE OR LOCAL REGULATIONS. DON'T DISPOSE OF IN STORM DRAINS OR STREAMS; MONOETHANOLAMINE IS TOXIC TO-FISH.

Handling And Storage Precautions

KEEP CONTAINER CLOSED WHEN NOT IN USE. SINCE EMPTY PACKAGES RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNING EVEN AFTER PACKAGE IS EMPTY.

Other Precautions

DON'T STORE >120F. SPRAY MIST MAY PRODUCE RESPIRATORY IRRITATION OR DAMAGE & INCREASE SUSCEPTIBILITY TO RESPIRATORY ILLNESS.

Explosion Hazard Information

Fire and

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Flash Point Method: TCC

Flash Point:

Flash Point Text: NONE

Autoignition Temp:

Autoignition Temp Text: N/A

Lower Limits: N/R

Upper Limits: N/R

Extinguishing Media

CO2, DRY CHEMICAL OR FOAM

Fire Fighting Procedures

WEAR SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard

N/K

Measures

Control

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Respiratory Protection

VENTILATION TO KEEP AIR <TLV, A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPOR SHOULD BE WORN IF NEEDED.

Ventilation

AT LEAST 10 AIR CHGS/HR RECOMMENDED. MECHANICAL: RECOMMENDED

Protective Gloves

IMPERVIOUS

Eye Protection

CHEMICAL SAFETY GOGGLES

Other Protective Equipment

IMPERVIOUS BOOTS & APRONS

Work Hygienic Practices

WASH THOROUGHLY AFTER HANDLING. REMOVE & WASH ALL CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

Physical/Chemical Properties

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HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text: 209F

Melt/Freeze Pt:

M.P/F.P Text: N/K

Decomp Temp:

Decomp Text: N/K

Vapor Pres: 0.6543

Vapor Density: N/R

Volatile Org Content %:

Spec Gravity: 0.986-0.992

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity: N/P

Evaporation Rate & Reference: SLOWER THAN ETHER

Solubility in Water: COMPLETE

Appearance and Odor: PALE YELLOW LIQUID; FLORAL ODOR

Percent Volatiles by Volume: 99.8%

Corrosion Rate: N/K

Data Reactivity

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Stability Indicator: YES

Stability Condition To Avoid: DON'T STORE >120F

Materials To Avoid: STRONG OXIDIZERS, PERMANGANATE, STRONG ACIDS

Hazardous Decomposition Products: ORGANIC MATERIAL, CO, CO2

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization N/K

Toxicological Information

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Toxicological Information:N/P

Ecological Information

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Ecological: N/P

MSDS Transport Information

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Transport Information:N/P

Regulatory Information

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Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Information

Other

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Other Information: N/P

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