

HACH COMPANY -- HYDROGEN PEROXIDE SOLUTION 50% H2O2 -- 6810-01-353-4876

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

Product ID:HYDROGEN PEROXIDE SOLUTION 50% H2O2

MSDS Date:06/24/1998

FSC:6810

NIIN:01-353-4876

Status Code:A

MSDS Number: CLBLJ

=== Responsible Party ===

Company Name:HACH COMPANY

Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO

ZIP:80539

Country:US

Info Phone Num:970-669-3050

Emergenc

y Phone Num:303-623-5716/515-232-2533

Resp. Party Other MSDS Num.:M00478

CAGE:91224

=== Contractor Identification ===

Company Name:ADI SERVICES

Address:ROUTE 3 BOX 94L

Box:UNKNOWN

City:MARTINSBURG

State:WV

ZIP:25401-9533

Country:US

Phone:304-263-7722

Contract Num:SP0450-01-M-D889

CAGE:0GD25

Company Name:HACH CO

Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO

ZIP:80539

Country:US

Phone:970-669-3050/ 303-623-5716

CAGE:91224

Company Name:HACH COMPANY

Address:100 DAYTON RD.

Box:907

City:AMES

State:IA
ZIP:50010
Country:US
Phone:800-227-4224
CAGE:4T252

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

Ingred Name:HYDROGEN PEROXIDE
CAS:7722-84-1
RTECS #:MX0900000
Minumum % Wt:45.
Maxumum % Wt:55.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 PPM
ACGIH TLV:1 PPM

Ingred Name:OTHER COMPONENTS (TYPE NOT SPECIFIED)
< Wt:.1
Other REC Limits:NONE RECOMMENDED

Ingred Name:DEMINERALIZED WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:45.
Maxumum % Wt:55.
Other REC Li
mits:NONE RECOMMENDED

===== 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:TARGET ORGANS: NONE REPORTED. EYE
CONTACT: CAUSES EYE BURNS. SKIN CONTACT: CAUSES BURNS. SKIN
ABSORPTION: NONE REPORTED. INGESTION: MAY CAUSE: BURNS OF THE MOUTH
AND ESOPHAGUS, ABDOMINAL PAIN. HYDAROG EN PERXIDE DECOMPOSES IN THE
BOWEL BEFORE ABSOR
PTION YIELDING LARGE VOLUMES OF OXYGEN WHICH MAY
CAUSE THE BOERL TO RUPTURE. INHALATION: CAUSES SEVERE IRRITATION OF
RESPIRATORY TRACT. CHRONIC EFFECTS: NONE REPORTED.
Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY OSHA
LISTED CARCINOGENS. IARC GROUP 3: NON-CLASSIFIABLE. THIS PRODUCT
DOES NOT CONTAIN ANY NTP LISTED CHEMICALS. ADDITIONAL
CANCER/REPRODUCTIVE TOXICITY INFORMATION: CONTAINS: AN
EXPERIMENTAL MUTAGEN.
Effects of Overexposure:CAUSES BURNS; DE

COMPOSES IN THE BOWEL BEFORE
ABSORPTION YIELDING LARGE VOLUME OF OXYGEN WHICH MAY CAUSE BOWEL TO
RUPTURE.

Medical Cond Aggravated by Exposure:PRE-EXISTING: EYE CONDITIONS. SKIN
CONDITIONS. RESPIRATORY CONDITIONS.

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

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15
MINUTES. CALL PHYSICIAN. SKIN CONTACT: WASH SKIN WITH PLENTY OF
WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING. CALL PHYSICIAN

IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES
OF WATER. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH
TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR. GIVE
ARTIFICIAL RESPIRATION IF NECESSARY. CALL PHYSICIAN.

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

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:USE MEDIA APPROPRIATE TO SURROUNDING FIRE
CONDITIONS.

Fire Fighting Procedures:AS IN ANY FIRE, WEAR SELF-C
ONTAINED BREATHING

APPARATUS PRESSURE-DEMAND AND FULL PROTECTIVE GEAR. CONTAINERS CAN
BUILD UP PRESSURE IF EXPOSED TO HEAT.

Unusual Fire/Explosion Hazard:MAY REACT VIOLENTLY WITH: COMBUSTIBLE
MATERIALS, REDUCERS, ALCOHOLS. MECHANICAL IMPACT: MIXTURES OF
HDROGEN PEROXIDE AND ORGAINC MATERIAL ARE DETONATABLE UPON FIRE OR
IMPACT.

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

Spill Release Procedures:REMOVE ALL COMBUSTIBLE MATERIAL FROM SPILL
AREA. ABS

ORB SPILLED LIQUID WITH NON-REACTIVE SORBENT MATERIAL.

STOP SPILLED MATERIAL FROM BEING RELEASED TO THE ENVIRONMENT. DIKE
LARGE SPILLS TO KEEP SPILL ED MATERIAL FROM ENTERING SEWAGE AND
DRAINAGE SYSTEMS OR BODIES OF WATER. "SEE OTHER INFO"

Neutralizing Agent:SODA ASH.

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

Handling and Storage Precautions:HANDLING: AVOID CONTACT WITH EYES,
SKIN, CLOTHING. DO NOT BREATHE VAPORS. WASH THOROUGHLY AFTER
HANDLING. M

MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT. STORAGE: KEEP AWAY FROM OXIDIZABLE MATERIALS, COMBUSTIBLE MATERIALS. STORE AWAY FROM ALKALIES, METALS, REDUCERS. Other Precautions: STORAGE: AVOID CONTAMINATION BY ORGANIC MATERIALS. PROTECT FROM EXPOSURE TO DIRECT SUNLIGHT. EMPTY CONTAINERS: RINSE THREE TIMES WITH AN APPROPRIATE SOLVENT. DISPOSE OF EMPTY CONTAINER AS NORMAL TRASH.

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

Respiratory Protection: USE A FUME HOOD TO AVOID EXPOSURE TO DUST, MIST OR VAPOR.
Ventilation: USE A FUME HOOD TO AVOID EXPOSURE TO DUST, MIST OR VAPOR. LABORATORY FUME HOOD.
Protective Gloves: DISPOSABLE LATEX GLOVES.
Eye Protection: CHEMICAL SPLASH GOGGLES.
Other Protective Equipment: HAVE AN EYEWASH STATION NEARBY. HAVE A SAFETY SHOWER NEARBY. DISPOSABLE LAB COAT.
Work Hygienic Practices: MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT
Supplemental Safety and Health
AVOID CONTACT WITH EYES, SKIN, CLOTHING. DO NOT BREATHE MIST/VAPOR. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM COMBUSTIBLE MATERIAL, ALKALIES, OXIDIZING MATERIALS. *INTENDED USE: LABORATORY REAGENT .

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

HCC:D3
Boiling Pt: 113.9C, 237.F
Melt/Freeze Pt: M.P/F.P Text: ND
Vapor Pres: 18.3
Spec Gravity: 1.196
pH: 1-3
Evaporation Rate & Reference: