

NATIONAL WELDERS SUPPLY CO INC -- HYDROGEN -- 6830-00-180-5919

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Product Identification
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Product ID:HYDROGEN
MSDS Date:01/01/1991
FSC:6830
NIIN:00-180-5919
MSDS Number: CCLPC
=== Responsible Party ===
Company Name:NATIONAL WELDERS SUPPLY CO INC
Address:810 GESCO
Box:31007
City:CHARLOTTE
State:NC
ZIP:28231
Country:US
Info Phone Num:704-333-5475(X308)/FAX 344-1711
Emergency Phone Num:800-8
66-4422/800-424-9300(CHEMTREC)
CAGE:18264
=== Contractor Identification ===
Company Name:NATIONAL WELDERS SUPPLY CO INC
Address:810 GESCO ST
Box:31007
City:CHARLOTTE
State:NC
ZIP:28231
Country:US
Phone:704-333-5475
CAGE:18264

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Composition/Information on Ingredients
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Ingred Name:HYDROGEN
CAS:1333-74-0
RTECS #:MW8900000
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTU

RER.

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

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

Health Hazards Acute and Chronic: ACUTE: INGEST: UNLIKELY ROUTE OF EXPO-PRODUCT IS GAS. EYE/SKIN/SKIN ABSORPT: NO EVIDENCE OF ADVERSE EFFECTS. INHAL: ASPHYXANT. MODERATE CONC MAY CAUSE HEAD, DROWS, EXCITATION, EXCESS SALIVATION, VOMIT, UNCONSC. CHRONIC: NO EVIDENCE OF ADVERSE EFFECTS. LACK OF OXYGEN CAN CAUSE DEATH.

Effects of Overexposure: ASPHYXANT, DEATH, MODERATE CONCENTRATION MAY

CAUSE HEADACHE, DROWSINESS, EXCITATION, EXCESS SALIVATION, VOMITING, UNCONSC.

Medical Cond Aggravated by Exposure: KNOWLEDGE OF AVAILABLE TOXICOLOGY INFO & PHYSICAL/CHEM PROPERTIES OF MATL SUGGEST THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MED CONDITIONS.

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

First Aid: INGEST: PRODUCT GAS @NORMAL TEMP/PRESSURE. SKIN: WASH W/SOAP/WATER. INHAL: REMOVE TO FRESH AIR. GIVE OXY IF BREATH DIFFICULT. GIVE ART RESP

IF NOT BREATHING. CALL PHYSICIAN

IMMED. EYE: FLUSH W/WATER. NOTE TO PHYSICIAN: THERE IS NO SPECIFIC ANTIDOTE. PRODUCT IS RELATIVELY INERT.

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

Flash Point: FLAMMABLE GAS

Autoignition Temp: Autoignition Temp Text: 520C

Lower Limits: 4

Upper Limits: 75

Extinguishing Media: CO2, DRY CHEMICAL, WATER SPRAY OR FOG.

Fire Fighting Procedures: REMOVE ALL PEOPLE. COOL CNTNR W/WATERSPRAY FROM MAX DISTANCE/DON'T EXT FLAMES; IF SO EXPLO REIGN MAY OCCUR. USE

SCBA. STOP LEAK/REMOVE CNTNR W/O RISK. ALLOW (SUPPLE)

Unusual Fire/Explosion Hazard: FLAMM GAS. FLAME NEARLY INVISIBLE. ESCAPING GAS IGN SPONT. H2 HAS LOW IGN ENERGY. FIREBALL FORMED IF GAS CLOUD IGN IMMEDIATELY AFT RELEASE. FORMS EXPLO MIX W/(SUPPLEMENT)

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

Spill Release Procedures: FORMS EXPLO MIXTURE W/AIR. IMMEDIATELY REMOVE PEOPLE. USE SCBA. REMOVE ALL IGN SOURCES. REDUCE GAS W/FINE WATERSPRAY. SHUT OFF LEAK W/O R

ISK.VENTI AREA.REMOVE LEAK CNTNR TO
WELL VENTI AREA.FLAMM GAS SPREAD F ROM SPILL.CHECK ATM BEF
ENTERING.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE PIPE/EQPMT ADEQUA DESIGN TO
W/STAND PRESSURE ENCOUNTERED.GROUND EQPMT.USE ONLY SPARK-PROOF
TOOL/EQPMT/IN CLSD SYS.PROTECT CYL FROM IGN SOURCE/ETC.

Other Precautions:WHEN 2 OR MORE GAS/LIQ GASES MISED THEIR HAZ
PROPERT

IES MAY COMBINE TO CREATE ADDN UNEXPECTED

HAZ.OBTAIN/EVALUATE SAFETY INFO FOR EA COMPONENT BEF PRODUCE THE
MIXTURE.CONSULT INDUSTR HYG/TRAIN PERSON WHEN MAKE SAF
EVALUATION.GAS/LIQ (SUPPL)

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

Respiratory Protection:SELECT IN ACCORDANCE IWTH OSHA
29CFR1910.134.RESPIRATORS SHALL BE ACCEPTABLE TO OSHA & NIOSH.

Ventilation:LOCAL EXHAUST:EXPLOSION-PROOF SYSTEM IS
ACCEPTABLE.MECHANICAL:INADEQUATE.

Protective Gloves

:PREFER FOR CYLINDER HNDLG.

Eye Protection:SELECT IAW OSHA 29CFR1910.132,1910.133.

Other Protective Equipment:METATARSAL SHOES FOR CYL HNDLG.SELECT IAW
OSHA 29CFR1910.132 AND 1010.133.

Work Hygienic Practices:NEVER WORK ON PRESSURIZED SYS.IF THERE'S LEAK
CLS CYL VALVE/BLOW DOWN SYS BY VENT TO SAFE PLACE/THEN REPAIR LEAK.

Supplemental Safety and Health

GAS DENS:0.005209 LB/FT3. FIREFIGHT:TO BURN.ON SITE FIRE BRIDGADES
COMPLY W/29CFR1910.156. FIRE/EXPLO HAZ:AIR/OXIDIZNG AGENTS.CNTNR

RUPT FRM HEAT.EXPLO ATM MAY LINGER.CHECK ATM BEF ENTER. OTHER
PRECAU T:HAV EPROPERTIES CAN CAUSE SERIOUS
INJURY/DEATH.READ/UNDERSTAND ALL LABELS/INSTRUCTIONS SUPPLIED W/ALL
PROD CNTNRS.

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

HCC:G2

Boiling Pt:B.P. Text:-423F,-253C

Melt/Freeze Pt:M.P/F.P Text:-435F,-259C

Decomp Temp:Decomp Text:D

Vapor Pres:GAS

Vapor Density:SUPPLEMENT

Spec Gravity:GAS

pH:D

Viscosity:D

Evaporation Rate & Reference:NA

Solubility in

Water:NEGLIGIBLE.

Appearance and Odor:COLORLESS GAS @NORMAL TEMP/PRESSURE; ODORLESS.

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

Stability Indicator/Materials to Avoid:NO
OXIDIZING AGENTS, LITHIUM, HALOGENS.

Stability Condition to Avoid:EXTREMELY FLAMM AIR/OXY/OXIDIZING AGENTS
FORMS EXPLO MIXTURES.

Hazardous Decomposition Products:NONE.

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

Waste Disposal Methods:PREVENTR WASTE FROM CNTAMIN SURROUNDING

ENVIRO.KEEP PEOPLE AWAY.DISCARD PRODU/RESIDUE/DISPOSABLE
CNTNR/LINER IN ENVIRO ACCEPTABLE MANNER IN FULL COMPLIANCE
W/FED/STATE/LOC REGS.

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