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**** MATERIAL SAFETY DATA SHEET ****
 1,3-Cyclohexadiene, stabilized, 96%
       **** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****
MSDS Name: 1,3-Cyclohexadiene, stabilized, 96%
Catalog Numbers:
    11110-0000, 11110-0050, 11110-0250, 11110-1000
Synonyms:
Company Identification (Europe): Acros Organics BVBA
                             Janssen Pharmaceuticalaan 3a
                             2440 Geel, Belgium
Company Identification (USA):
                            Acros Organics
                             One Reagent Lane
                             Fairlawn, NJ 07410
For information in North America, call: 800-ACROS-01
For information in Europe, call:
                                    0032(0) 14575211
For emergencies in the US, call CHEMTREC: 800-424-9300
For emergencies in Europe, call: 0032(0) 14575299
        **** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****
Chemical Name
                                                         EINECS# |Haz Symbols | Risk Phrases |
     CAS#
                                                 8
96% 209-764-1 |||
592-57-4 |1,3-Cyclohexadiene
Hazard Symbols: XI F
        Risk Phrases: 11 37
               **** SECTION 3 - HAZARDS IDENTIFICATION ****
                          EMERGENCY OVERVIEW
Highly flammable. Irritating to respiratory system.
Potential Health Effects
    Eye:
        May cause eye irritation.
    Skin:
        May cause skin irritation. May be harmful if absorbed through the
        skin.
    Ingestion:
        May cause irritation of the digestive tract. May be harmful if
        swallowed.
    Inhalation:
        Causes respiratory tract irritation. May be harmful if inhaled.
    Chronic:
        Not available.
                 **** SECTION 4 - FIRST AID MEASURES ****
    Eyes:
        Flush eyes with plenty of water for at least 15 minutes,
        occasionally lifting the upper and lower eyelids. Immediately flush
        eyes with plenty of water for at least 15 minutes, occasionally
        lifting the upper and lower eyelids. Get medical aid immediately.
    Skin:
        Get medical aid. Flush skin with plenty of water for at least 15
        minutes while removing contaminated clothing and shoes.
    Ingestion:
        If victim is conscious and alert, give 2-4 cupfuls of milk or water.
        Get medical aid immediately. Do NOT induce vomiting. If conscious and
        alert, rinse mouth and drink 2-4 cupfuls of milk or water.
    Inhalation:
        Get medical aid immediately. Remove from exposure and move to fresh
        air immediately. If not breathing, give artificial respiration. If
        breathing is difficult, give oxygen.
    Notes to Physician:
               **** SECTION 5 - FIRE FIGHTING MEASURES ****
    General Information:
        As in any fire, wear a self-contained breathing apparatus in
        pressure-demand, MSHA/NIOSH (approved or equivalent), and full
        protective gear. Will burn if involved in a fire. Flammable liquid
        and vapor.
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Extinguishing Media:
          Use agent most appropriate to extinguish fire.
                **** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****
     General Information: Use proper personal protective equipment as indicated
                          in Section 8.
     Spills/Leaks:
          Absorb spill with inert material (e.g. vermiculite, sand or earth),
          then place in suitable container. Remove all sources of ignition.
          Use a spark-proof tool.
                   **** SECTION 7 - HANDLING and STORAGE ****
     Handling:
          Use spark-proof tools and explosion proof equipment. Avoid breathing
          dust, vapor, mist, or gas. Avoid contact with skin and eyes.
     Storage:
          Keep away from heat, sparks, and flame. Refrigerator/flammables.
          **** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****
     Engineering Controls:
          Use adequate ventilation to keep airborne concentrations low.
     Personal Protective Equipment
                 Eyes:
                       Wear chemical goggles.
                 Skin:
                       Wear appropriate protective gloves to prevent skin
                       exposure.
             Clothing:
                       Wear appropriate protective clothing to minimize
                       contact with skin.
          Respirators:
                       Follow the OSHA respirator regulations found in 29
                       CFR 1910.134 or European Standard EN 149. Always use
                       a NIOSH or European Standard EN 149 approved
                       respirator when necessary.
             **** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****
Physical State:
                            Clear liquid
Color:
                            colorless
Odor:
                            stench
pH:
                            Not available.
Vapor Pressure:
                            Not available.
Viscosity:
                            Not available.
Boiling Point:
                            80 deg C @ 760.00mm Hg
Freezing/Melting Point:
                            -98 deg C
Autoignition Temperature: Not available.
Flash Point:
                            -6 deg C ( 21.20 deg F)
                            Not available.
Explosion Limits, lower:
                            Not available.
Explosion Limits, upper:
Decomposition Temperature:
Solubility in water:
                            immiscible
Specific Gravity/Density:
                            .8616g/cm3
Molecular Formula:
Molecular Weight:
                            80.13
                 **** SECTION 10 - STABILITY AND REACTIVITY ****
     Chemical Stability:
          Stable under normal temperatures and pressures.
     Conditions to Avoid:
          Incompatible materials, ignition sources.
     Incompatibilities with Other Materials:
          Strong oxidizing agents.
     Hazardous Decomposition Products:
          Carbon monoxide, carbon dioxide.
     Hazardous Polymerization: Has not been reported.
                **** SECTION 11 - TOXICOLOGICAL INFORMATION ****
     RTECS#:
          CAS# 592-57-4: GU4702350
     LD50/LC50:
          CAS# 592-57-4: Inhalation, mouse: LC50 = 45000 mg/m3/2H.
     Carcinogenicity:
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1,3-Cyclohexadiene -
          Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
          See actual entry in RTECS for complete information.
                  **** SECTION 12 - ECOLOGICAL INFORMATION ****
                 **** SECTION 13 - DISPOSAL CONSIDERATIONS ****
Dispose of in a manner consistent with federal, state, and local regulations.
                  **** SECTION 14 - TRANSPORT INFORMATION ****
     IATA
          Shipping Name: FLAMMABLE LIQUID, N.O.S.*
           Hazard Class: 3
              UN Number: 1993
          Packing Group: II
     тмо
          Shipping Name: FLAMMABLE LIQUID, N.O.S.
           Hazard Class: 3
              UN Number: 1993
          Packing Group: II
     RID/ADR
          Shipping Name: FLAMMABLE LIQUID, N.O.S.
           Hazard Class: 3
              UN Number: 1993
          Packing group: II
                  **** SECTION 15 - REGULATORY INFORMATION ****
 European/International Regulations
     European Labeling in Accordance with EC Directives
          Hazard Symbols: XI F
          Risk Phrases:
                       R 11 Highly flammable.
                       R 37 Irritating to respiratory system.
          Safety Phrases:
                       S 9 Keep container in a well-ventilated place.
                       S 16 Keep away from sources of ignition - No
                       smoking.
                       S 33 Take precautionary measures against static
                       discharges.
   WGK (Water Danger/Protection)
          CAS# 592-57-4: No information available.
   United Kingdom Occupational Exposure Limits
   United Kingdom Maximum Exposure Limits
   Canada
          CAS# 592-57-4 is listed on Canada's NDSL List.
          CAS# 592-57-4 is not listed on Canada's Ingredient Disclosure List.
   Exposure Limits
 US FEDERAL
     TSCA
          CAS# 592-57-4 is listed on the TSCA inventory.
                  **** SECTION 16 - ADDITIONAL INFORMATION ****
     MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.
     The information above is believed to be accurate and represents the best
     information currently available to us. However, we make no warranty of
     merchantability or any other warranty, express or implied, with respect to
     such information, and we assume no liability resulting from its use. Users
     should make their own investigations to determine the suitability of the
     information for their particular purposes. In no way shall the company be
     liable for any claims, losses, or damages of any third party or for lost
     profits or any special, indirect, incidental, consequential or exemplary
     damages, howsoever arising, even if the company has been advised of
     the possibility of such damages.
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