

1. Product and Company Identification

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Product Name Arcosolv PNP
Product Type RXSOL-60-6261-100

Company Details:

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2. Composition / Information on ingredients

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| SARA 313 Component | CAS Number | Percent Comp. | Dimension | Exposure Limits |
|--------------------|------------|---------------|-----------|---|
| ARCOSOLV® PNP | CAS#1569- | 100% | V/V | OSHA TWA1000 ppm(2400 mg/m ³) |

3. Hazards Identification

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Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container

Emergency Overview: Danger. Causes Respiratory, Skin And Eye Irritation. Combustible Liquid And Vapor. Harmful If Swallowed.

Inhalation: Overexposure may Cause Coughing, Shortness of Breath Dizziness, Intoxication and Collapse.

Ingestion: May Cause Moderate Irritation of the Mouth, Throat, Esophagus and Stomach, with Abdominal and Chest Discomfort.

Skin: Exposure to this Material can Result in Absorption Through Skin Causing a Significant Health Hazard.

Eye Contact: Liquid Vapor, and Mist May Cause Discomfort in the Eye with Persistent Conjunctivitis, Seen as Slight Excess Redness of Conjunctiva. Serious Corneal Injury in Not Anticipated.

Chronic Exposure: Repeated or Prolonged Skin Contact may Cause Progressive Dermatitis and may Aggravate Pre-Existing Dermatitis. Repeated or Prolonged Exposure to Vapors may Aggravate Asthma and Other Respiratory Conditions. Overexposure may Cause In coordination of Movements, Speech Difficulties, Headache, Loss of Consciousness and Possible Liver and Kidney Damage.

Aggravated by Exposure: This Material or its Emissions may Affect the Central Nervous System (CNS) and/or Aggravate Pre-Existing CNS Disorders. Prolonged Observation may be Indicated

4. First Aid Measures

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Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SKIN: Remove contaminated clothing. Wash exposed area with soap and

EYES:

water. if irritation persists, seek medical attention.

INHALATION:

Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.

INGESTION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person

5. Fire-fighting Measures

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Fire Extinguisher Type:

Fire / Explosion Hazards:

Fire Fighting Procedures:

Carbon Dioxide, dry chemical powder or appropriate foam

Vapors can form explosive mixtures at temperatures at or above the f

Wear self-contained breathing apparatus and protective clothing to pr
skin and clothing.

6. Accidental Release Measures

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Eliminate Ignition Sources. Absorb with inert material. Place in container. Vent area and wash site.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and

Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment.

7. Handling and Storage

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Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation

8. Exposure controls and personal protection

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Respiratory Protection

NIOSH/MSHA-approved respirator

Ventilation

Local

OTHER

Mechanical

Protective Gloves

Wear appropriate gloves to prevent skin exposure

EYE PROTECTION

Goggles and Face Shield

Other Protective Equipment

Wear appropriate clothing to prevent skin exposure

9. Physical and chemical properties

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BOILING POINT

150°C (302 F)

VAPOR PRESSURE

1.7 mm Hg @20° C

MELTING POINT

-70°C (-94F)

VAPOR DENSITY

4 (air = 1)

EVAPORATION RATE

0.22

Appearance /Odors

Clear colorless liquid / mild

Flash Point

-48°C (118F)

Specific Gravity

0.89

Percent Volatile by

>99

Evaporation Residue

Residueless

Ambient Storage Temp

No applica

| | |
|---------------------------|---------|
| Lower Flamm. Limit in Air | 1.3 |
| Upper Flamm. Limit in Air | 16.9 |
| Solubility in Water | Soluble |

10. Stability and reactivity

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STABILITY

| | |
|----------------------------------|--|
| CONDITIONS TO AVOID | Extended contact with air or oxygen |
| MATERIALS TO AVOID | Nitric Acid, Acetic Acid, Sulfuric Acid. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Oxides of carbon and other toxic gases |
| HAZARDOUS POLYMERIZATION | will not occur |
| Conditions to Avoid | None known |

11. Toxicological information

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Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

12. Ecological information

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Environmental Fate: When Released to the Soil and Water, this Material may Evaporate to Moderate Extent. When Released into the Soil, This Material may Leach into Groundwater. When Released into the Water, This Material is Expected to have a Half Life Between 1 and 10 Days.

Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air.

14. Transport information

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DOT Classification: UN1993, Flammable Liquids, n.o.s. (Propylene Glycol n-Propyl Ether), 3, PG

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

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Components listed on the TSCA inventory.

16. Other information

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Warning. Flammable. May cause severe eye irritation and moderate skin irritation. May be a slight health hazard if ingested

Flammability

Health

Reactivity

Revisions
7/30/2010

NFPA
0.1 updated msds to 16 section from 10 section msds. STN
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