UREA PEROXIDE

| (| CAUTION | IARY RESPO | ONSE INFORM | ATION |] [| 4. FIRE HAZARDS | 7. SHIPPING INFORMATION | | |
|--|---|--|---|---|--|---|---|--|--|
| Common Synoi Carbamide peroxide Carbonyl diamine per Hydrogen peroxide ca Percarbamide Urea hydrogen peroxi Urea, hydrogen perox | nyms oxide arbamide de ide salt | Solid Mixes with water. | White | Odorless | | 4.1 Flash Point: Not pertinent (combustible solid; may cause fire upon contact with ordinary combustibles) 4.2 Flammable Limits in Air: Not pertinent 4.3 Fire Extinguishing Agents: Inert powders (e.g., sand, limestone), water 4.4 Fire Extinguishing Agents Not to Be | 7.1 Grades of Purity: 98-100% 7.2 Storage Temperature: Below 60°C (140°F) 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available | | |
| Keep people away. Avoid contact with solid and dust. Shut off ignition sources and call fire department. Notify local health and pollution control agencies. Protect water interfease | | | | Special Hazards of Combustion Products: Irritating ammonia gas may be formed in fire. Behavior in Fire: Melts and decomposes, | 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Oxidizer 8.2 49 CFR Category: Oxidizer | | | | |
| Fire Combustible. May cause fire on contact with combustibles. POISONOUS GASES MAY BE PRODUCED IN FIRE. Containers may explode in fire. Flood discharged area with water. Cool exposed containers with water. | | | | | | giving off oxygen and ammonia. Increases severity of fire. Containers may explode. 4.7 Auto Ignition Temperature: >680 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Not pertinent | 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 9.2 DCPA Watch Watcher Not Pitted | | |
| Exposure Call for medical aid. SOLID Irritating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. | | | | A10 Adiabatic Flam Eremperature: Currently not available A11 Stoichometric Air to Fuel Ratio: Not pertinent. A12 Flame Temperature: Currently not available A13 Combustion Molar Ratio (Reactant to Product): Not pertinent. A14 Minimum Oxygen Concentration for | 8.9 RCRA waste Number: Not listed 8.9 EPA FWPCA List: Not listed 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 94.1 9.3 Boiling Point at 1 atm: Not pertinent (decomposes) 4 Ensemina Baint Not pertinent | | | | |
| Water Pollution | Effect of low May be dang | concentrations on a gerous if it enters wa | iquatic life is unknown. ter intakes. | | | Combustion (MOCC): Not listed | 9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent | | |
| Notify operators of nearby water | | 2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: CO(NHb): HO: 2.3 IMO/UN Designation: 5.1/1511 2.4 DOT ID No:: 1511 | | | 5.1 Reactivity with Water: Forms solution of hydrogen peroxide (non-hazardous reaction) 5.2 Reactivity with Common Materials: No significant reaction at ordinary temperatures. At 50°C (122°F) reacts with dust and rubbish. 5.3 Stability During Transport: Stable below 60°C (140°F). | 9.7 Specific Gravity: 0.8 at 20°C (solid) 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent | | | |
| Stop discharge Stop discharge A. HEALTH M. 1. Personal Protective Equipment: Rubber gloves a discharge 2. Symptoms Following Exposure: Inhalation of dus formed when heated. Contact with eyes cause information of the propary itching or burning sensation. Ingestic USESTON: give large amounts of water for at the INGESTION: give large amounts of water for at the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to the Set of the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to the Set of the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to the Set of the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to the INGESTION: give large amounts of water (set of the INGESTION: give large amounts of water) end to INGESTION: give large amounts of water (set of the INGESTION: Give large amounts of water) end to and and and and and and and and and and | | | 2.5 CAS Registry 2.6 NAERO Guide 2.7 Standard Indu- 51219 IAZARDS and protective goggles is causes irritation of n es severe damage. Co n causes irritation of n fictim from exposure; ca least 15 min.; call physi medical attention. | No: 124-43-6 No: 140 Istrial Trade Classification: | | 60°C (140°F). 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): None 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed NOT | 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: -540 Btu/lb = -300 cal/g = -12.5 X 10 ⁵ J/kg 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.19 Reid Vapor Pressure: Currently not available 9.19 Ets | | |
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UREA PEROXIDE

| 9.20 SATURATED LIQUID DENSITY | | 9.21 LIQUID HEAT CAPACITY | | 9. LIQUID THERMA | 22 L CONDUCTIVITY | 9.23 LIQUID VISCOSITY | |
|----------------------------------|-----------------------|------------------------------|-------------------------------------|----------------------------|---|----------------------------|-------------|
| Temperature (degrees F) | Pounds per cubic foot | Temperature (degrees F) | British thermal unit per pound-F | Temperature (degrees F) | British thermal unit inch per hour-square foot-F | Temperature (degrees F) | Centipoise |
| | N O T | | N O T | | N O T | | N O T |
| | - PERTINENT | | - PERTINENT | | - PERTINENT | | - PERTINENT |
| | | | | | | | |

| Temperature (degrees F) Pounds per 100 pounds of water Temperature (degrees F) Pounds per square inch Temperature (degrees F) Pounds per cubic foot Temperature (degrees F) British thermal uni pound-F 34 37.870 N N N N N 36 38.630 O O O O | 9.24 SOLUBILITY IN WATER | 9.25 SATURATED VAPOR PRESSURE | 9.26 SATURATED VAPOR DENSITY | 9.27 IDEAL GAS HEAT CAPACITY | |
|--|--|--|--|--|--|
| 34 37.870 N N N O </td <td>Temperature (degrees F) Pounds per 100 pounds of water</td> <td>3 Temperature (degrees F) Pounds per square inch</td> <td>Temperature (degrees F) Pounds per cubic foot</td> <td>Temperature (degrees F) British thermal unit per pound-F</td> | Temperature (degrees F) Pounds per 100 pounds of water | 3 Temperature (degrees F) Pounds per square inch | Temperature (degrees F) Pounds per cubic foot | Temperature (degrees F) British thermal unit per pound-F | |
| 38 39.400 T T T T 40 40.170 P P P P 42 40.930 P E F P 44 41.700 R R P 46 42.470 R R R 46 42.470 R R R 46 42.470 R R R 50 44.000 I I I 50 44.070 N N N 51 44.770 E E E 52 44.770 N N N N 54 45.530 E E E 55 44.070 N N N N 56 4.070 T T T 58 40.9370 T T T 64 49.370 T T T 70 51.670 T T T 71 52.430 F F F 68 50.900 F F F 61 51.670 F F F 74 52.970 <t< td=""><td>34 37.870 35 38.630 38 33.400 40 40.170 42 40.930 44 41.700 46 42.470 48 43.230 50 44.000 52 44.770 54 45.530 56 46.300 52 44.7070 60 47.870 62 48.600 64 49.370 66 50.130 68 50.900 70 51.670 72 52.430 74 53.200 76 53.970 78 54.730 80 55.500 82 56.270 84 57.030</td><td>N O T P E R T I N E N T</td><td>N O T P E R T I N E N T</td><td>N O T P E R T I N E N T</td></t<> | 34 37.870 35 38.630 38 33.400 40 40.170 42 40.930 44 41.700 46 42.470 48 43.230 50 44.000 52 44.770 54 45.530 56 46.300 52 44.7070 60 47.870 62 48.600 64 49.370 66 50.130 68 50.900 70 51.670 72 52.430 74 53.200 76 53.970 78 54.730 80 55.500 82 56.270 84 57.030 | N O T P E R T I N E N T | N O T P E R T I N E N T | N O T P E R T I N E N T | |