

Safety Data Sheet

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1- -United States

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME PRODUCT TYPE CODE	Dakine 420 PH UP 0-0-60 Granular Concentrate UPC - 728028467093 (1,000g)
GENERAL USE AREA OF APPLICATION MATERIAL USES	Professional fertilizers
SUPPLIER DETAILS NAME STREET ADDRESS CITY, STATE, POSTAL CODE COUNTRY PHONE NUMBER FAX NUMBER E-MAIL	Dakine 420, LLC. 494 SW Veterans Way Ste 6 Redmond, OR 97756 United States 541-420-4645 541-203-4525 info@dakine420.com
NATIONAL POISON CENTER NAME TELEPHONE NUMBER	American Association of Poison Control Centers 800-222-1222

2. HAZARDS IDENTIFICATION

1. GHS CLASSIFICATION PHYSICAL HAZARDS HEALTH HAZARDS ENVIRONMENTAL HAZARDS	- N/A - Skin corrosion/irritation Cat. 2 - Serious eye damage/irritation Cat. 2 - Specific Target organ Toxicity (single exposure) Cat. 3 - N/A
2. GHS LABEL ELEMENTS, INCLUDING PRE-CAUTIONARY STATEMENTS HAZARD SYMBOLS SIGNAL WORD HAZARD STATEMENTS PRECAUTIONARY STATEMENT: PREVENTION RESPONSE STORAGE DISPOSAL	<div style="text-align: center;">  </div> - Warning - Causes skin irritation - Causes serious eye irritation - May cause respiratory irritation - May cause drowsiness or dizziness - Wash thoroughly after handling. - Wear protective gloves, clothing, eye and face gear. - Avoid breathing dust/fume/gas/mist/vapors/spray. - Use only outdoors or in a well-ventilated area. - Call a POISON CENTER or doctor/physician if you feel unwell. - Take off contaminated clothing and wash before reuse. - IF ON SKIN, wash with plenty of soap and water. - If skin irritation occurs, get medical advice/attention. If eye irritation persists, get medical advice/attention. - IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. - IF IN EYES, rinse cautiously with water for several minutes (if wearing, remove contact lenses). - Store locked up. - Store in a well-ventilated place. - Keep container tightly closed. - Dispose of contents/container in accordance with the local/regional/national/international regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

POTASSIUM CARBONATE

CAS #584-08-7; contents % - 99.5%

POTASSIUM CARBONATE

CAS #584-08-7; KE #TS7750000; EN #209-529-3

4. FIRST AID MEASURES

EYE CONTACT

- Immediately lift eyelid and flush eyes with flowing water.
- Lift eyelid and completely remove materials. Ensure irrigation under eye lids by occasionally lifting the upper and lower lids.
- Transport to hospital, or doctor.
- Removal of contact lenses after an eye injury should only be under taken by skilled personnel.

SKIN CONTACT

- Remove contaminated clothing and shoes immediately.
- Flush skin and hair with running water and soap if available.
- Seek medical attention in event of irritations.

INHALATION

- If inhalation of fume or combustion, move to the fresh air.
- Go to where there is fresh air and if necessary, conduct artificial respiration. If not breathing, give artificial respiration.

INGESTION

- If breathing is difficult, give oxygen.
- Wash out mouth with water.
- If swallowed do NOT induce vomiting.
- Lay patient down with head lower than body, for suffocation prevention if vomiting occurs.
- Get medical attention immediately.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

- May cause eye, skin, respiratory irritation when exposed.
- May cause lung effect of long-term exposure to dust of high concentrations.
- Ingestion may cause nausea, vomiting and stomach and severe digestive system irritation and burns.
- Inhalation may cause respiratory irritation.
- If contact with skin, may cause irritation and caustic effect is analogous to Potassium hydroxide.
- If contact with eye, may cause irritation and caustic effect is analogous to Potassium hydroxide.

FIRST AID TREATMENT AND NOTE TO PHYSICIAN

- Treatment may vary with condition of victim and specifics of incident.

5. FIRE-FIGHTING MEASURES

SUITABLE (UNSUITABLE) EXTINGUISHING MEDIA

- Extinguishing media: Dry chemical powder, CO₂, water, foam.
- If large fire, use regular extinguishing media or flood with fine water spray.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

- Unsuitable extinguishing media: Do not use water-jet.
- Non-flammability.
- Substance itself does not burn but decomposes, when heated may cause corrosive/toxic fume.
- Fire risk can be ignored but containers may rupture or explode, if exposed.

SPECIAL PROTECTION ACTIONS AND EQUIPMENTS FOR FIRE-FIGHTING

- Hazardous combustion product: Thermal decomposition may produce gas and/or fume of Carbon dioxide, carbon monoxide, potassium oxide.
- Firefighters should wear self-contained breathing apparatus and protective clothing.
- If safe to do so, remove containers from path of fire.

	<ul style="list-style-type: none"> - If removal is impossible, cool containers and surrounding area with water. - Cool containers with flooding quantities of water until well after fire is out. - Do not allow run-off from fire-fighting to enter drains or water courses. - Do not impervious water inside containers.
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6. ACCIDENTAL RELEASE MEASURES

<p align="center">PERSONAL PRECAUTIONS</p> <p align="center">ISOLATE SPILLED MATERIAL (SMALL SPILLS; ADSORPTION OF ABSORBENT ETC.)</p> <p align="center">ENVIRONMENTAL PRECAUTIONS</p> <p align="center">METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP</p>	<ul style="list-style-type: none"> - Wear appropriate personal protective equipment and avoid inhalation or contact with eyes and skin. - Wear appropriate personal protective equipment (see section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION). - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. - Stop leak if you can do it without risk. - Keep unnecessary people away. - Ventilate leak areas. - Avoid dust formation. - Possibly collect recoverable product (used for shovel or vacuum vehicle). - Residue is neutralized for the acid. - Move container to safe area from the leak area. - Wear personal protect clothes, protective equipment. - Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. - If large spills, advise emergency services. - Small spills: Remove the spilled material and use dry removal method and suppression occurrence of dust. - Large spills: Dispose of spilled material in appropriate containers and wash spill area with plenty of water.
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7. HANDLING AND STORAGE

<p align="center">HANDLING</p> <p align="center">STORAGE PRECAUTIONARY STATEMENTS</p>	<ul style="list-style-type: none"> - Wear appropriate personal protective equipment(see section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION). - Avoid contact with incompatible materials. - Use in a well-ventilated area. - Do not mixed storage and transportation of grocery, fodder, medicines, food. - When handling, DO NOT eat, drink or smoke. - Avoid breathing dust and contact with the eyes, skin. - Wash hands with soap and water after handling. - Minimize occurrence of dust and accumulation. - Save and handle applicable laws and regulations. - the original container should be stored. - Store away from water or moisture and store in dry area (strong hygroscopic property). - The container withstand for physical damage should be stored. - Save in cool, dry and well-ventilated place. - Stored in airtight containers and Avoid contact with water and moistures. - Absorption is the cause of the reduction of the concentration with Potassium Carbonate. - Do not store with Volatile Organic Compounds. Product may discolor.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<p>EXPOSURE LIMITS</p> <p>BIOLOGICAL EXPOSURE LIMITS</p> <p>ENGINEERING CONTROLS</p> <p>PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION</p> <p>EYE PROTECTION</p> <p>HAND PROTECTION</p> <p>BODY PROTECTION</p>	<ul style="list-style-type: none"> - The standard for dust not otherwise specified is 10 mg/m₃ (for inspirable dust) and 3 mg/m₃ (for respirable dust). - Not applicable - The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumed hood. Provide mechanical ventilation of confined spaces. - Under conditions of frequent use or heavy exposure, respiratory protection may be needed. - Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. <ul style="list-style-type: none"> → Dust, mist, fume-purifying respiratory protection → Any air-purifying respirator with a corpuscle filter of high efficiency → Any respiratory protection with an electro-motion fan (for dust, mist, fume-purifying) - For Unknown Concentration or Immediately Dangerous to Life or Health: <ul style="list-style-type: none"> → Self-contained breathing apparatus (pressure-demand or other positive-pressure mode in combination) → Supplied-air respirator with full facepiece - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face-shield. - Provide an emergency eye wash station and quick drench shower in the immediate work area. - Wear appropriate protective gloves. - Wear appropriate protective cloth.
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9. PHYSICAL AND CHEMICAL PROPERTIES

<p>APPEARANCE :</p> <p>ODOR :</p> <p>PH :</p> <p>MELTING POINT / FREEZING POINT :</p> <p>INITIAL BOILING POINT / BOILING RANGES :</p> <p>VAPOR PRESSURE :</p> <p>SOLUBILITY :</p> <p>RELATIVE DENSITY :</p> <p>19. MOLECULAR WEIGHT :</p>	<p>Liquid / Colorless or white</p> <p>Odorless</p> <p>11.0 (0.02 M Solution)</p> <p>5°F (-15°C)</p> <p>Decomposition / 234°F (-112°C) / Not available</p> <p>12 mm Hg (20°C)</p> <p>soluble(water)</p> <p>1.496 (15.6°C) (Water=1)</p> <p>138.21</p>
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10. STABILITY AND REACTIVITY

<p>STABILITY</p> <p>POSSIBILITY OF HAZARDOUS REACTION CONDITIONS TO AVOID MATERIALS TO AVOID</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS</p>	<ul style="list-style-type: none"> - This material is stable under recommended storage at normal temperature and pressure. - Polymerization : Will not occur. - Keep away from heat, flame, sparks and source of ignition. - Avoid contact with Oxidants (Acids, nitrates, chlorine bleach, the chlorine used in pools). - Because the reaction with Aluminum, Fluoro, Magnesium, Silicon, Chlorine Trifluoride, powder metal should be avoided. - Carbon compounds, potassium and it's compound.
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11. TOXICOLOGICAL INFORMATION

<p>INFORMATION OF EXPOSURE ROUTE: RESPIRATORY TRACT</p> <p>ORAL</p> <p>EYE/ SKIN</p>	<ul style="list-style-type: none"> - May cause respiratory irritation. - Not Classified. - Causes serious eye irritation, Causes skin irritation.
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<p>DELAYED AND IMMEDIATE EFFECTS, ALSO CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:</p> <p>ACUTE TOXICITY</p> <p>SKIN CORROSION/IRRITATION</p> <p>SERIOUS EYE DAMAGE/IRRITATION</p> <p>SKIN SENSITIZATION</p> <p>CARCINOGENICITY</p> <p>GERM CELL MUTAGENICITY</p> <p>REPRODUCTIVE TOXICITY</p> <p>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</p> <p>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)</p> <p>ASPIRATION HAZARDS</p>	<ul style="list-style-type: none"> - Oral Toxicity : LD50 > 2000mg/kg b.w. (Rat) - Dermal Toxicity : Not available - Inhalation Toxicity : Not available - Irritation is observed. - Irritation is observed. - In the intracutaneous skin sensitization test, allergic skin reactions are not observed. - Not applicable - Ames test : Negative - Gene mutation (mammalian cell gene mutation assay) : Negative - Chromosome aberration (mammalian chromosome aberration test) : Negative - No adverse effects were observed in the reproductive sturdy using the rats for high concentration. - May cause respiratory irritation. - No adverse effects are observed in the repeated exposure sturdy using the rodents. - Not available
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12. ECOLOGICAL INFORMATION

<p>ECOTOXICITY</p> <p>PERSISTENCE AND DEGRADABILITY</p> <p>BIOACCUMULATION</p> <p>MOBILITY IN SOIL</p> <p>OTHER ADVERSE EFFECTS</p>	<ul style="list-style-type: none"> - Acute aquatic toxicity <ul style="list-style-type: none"> • Fish : LC50=68mg/L, 96hr, Oncorhynchus mykiss • Daphnia magna : EC50=430mg/L, 48hr, Daphnia agna (non-GLP) • Algal : Not available - Not available - Not available - Not available - Not available
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13. DISPOSAL CONSIDERATIONS

<p>DISPOSAL METHOD</p> <p>SPECIAL PRECAUTIONS FOR DISPOSAL</p>	<ul style="list-style-type: none"> - The user of this product must properly characterize the waste/container generated from the use of this product in accordance with all applicable federal, state and/or local laws and regulations, in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulations. - The user of this product must either dispose by oneself, entrust to person who disposes and recycles waste, or to person who operates a waste disposal facility. - Dispose of waste in accordance with local regulation.
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14. TRANSPORT INFORMATION

TRANSPORTATION INFORMATION	- Not regulated for transport of dangerous goods
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15. REGULATORY INFORMATION

<p>REGULATORY INFORMATION</p> <p>INFORMATION POISONS SCHEDULE</p> <p>US REGULATIONS</p> <p>CERCLA SECTION 103 (40 CFR 302.4)</p> <p>SARA SECTION 302 (40 CFR 355.30)</p> <p>SARA SECTION 304 (40 CFR 355.40)</p> <p>SARA HAZARD CATEGORIES, SARA SECTION 311/312 (40 CFR 370.21):</p> <p>ACUTE</p> <p>CHRONIC</p> <p>FIRE</p>	<ul style="list-style-type: none"> - None available - Not a scheduled poison. - CERCLA section 103 (40 CFR 302.4) : Not regulated - Not regulated - Not regulated - Not regulated - YES - NO - NO
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REACTIVE : NO SUDDEN RELEASE SARA SECTION 313 (40 CFR 372.65) OSHA REGULATION (29 CFR 1910.119) US STATE REGULATIONS: CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT) CHEMICAL INVENTORY STATUS: US INVENTORY (TSCA)	- NO - NO - Not regulated - Not regulated - Not regulated - Listed - TSCA 12(b) Export Notifications : Not listed.
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16. OTHER INFORMATION	
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Date of preparation	March 2019
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