

ANACHEMIA SCIENCE -- SODIUM NITRATE, AC-8425 -- 6810-01-225-1458

===== Product Identification =====

Product ID:SODIUM NITRATE, AC-8425

MSDS Date:03/21/1994

FSC:6810

NIIN:01-225-1458

Status Code:A

MSDS Number: CKZNZ

=== Responsible Party ===

Company Name:ANACHEMIA SCIENCE

Address:500 - 2ND AVE. H8R 1M3

City:VILLE ST. PIERRE (MONTREAL)

State:PQ

Country:CN

Info Phone Num:514-489-5711

Emergency Phone

Num:613-996-6666/518-297-4444

Chemtec Ind/Phone:(800)424-9300

CAGE:36842

=== Contractor Identification ===

Company Name:ANACHEMIA

Address:3 LINCOLN BLVD

Box:City:ROUSES POINT

State:NY

ZIP:12979

Country:US

Phone:518-297-4444

CAGE:HO801

Company Name:ANACHEMIA CANADA

Address:255 NORMAN H8R 1A3

Box:City:VILLE ST. PIERRE (MONTREAL)

State:PQ

Country:CN

Phone:514-489-5711;518-297-4444

CAGE:36842

===== Composition/Information on Ingredients =====

Ingred Name:SODIUM NITRATE

CAS:763

1-99-4
RTECS #:WC5600000
Minumum % Wt:99.
Maxumum % Wt:100.

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===== Hazards Identification =====
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LD50 LC50 Mixture:SODIUM NITRATE ORAL LD50 3236 MG/KG RAT
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EFFECTIONS OF ACUTE EXPOSURE: HARMFUL BY
INGESTION AND INHALATION; IRRITANT. EYE:CAUSES IRRITATION
(REDNESS, ITCHING AND PAIN). SKIN: CAUSES SKIN IRRITATION (REDN
ESS,
ITCHING AND PAIN). INHALATION: MATE RIAL IRRITATING TO MUCOUS
MEMBRANES AND UPPER RESPIRATORY TRACT. EXPOSURE CAN CAUSE COUGHING,
CHEST PAINS, DIFFICULTY IN BREATHING. INGESTION: MAY CAUSE
HEADACHE, NAUSEA, VOMITING, WEAKNESS, DIZZINESS , DIURESIS, BLOODY
DIARRHEA, ABDOMINAL PAIN, MENTAL IMPAIRMENT, METHEMOGLOBINEMIA,
CYANOSIS, GASTRO-ENTERITIS, CONVULSIONS AND COLLAPSE. NITRATES MAY
BE REDUCED TO NITRITES BY BACTERIA IN DIGESTIVE TR ACT. SIGNS AND
SYMPTOMS (
OVEREXPOSURE)
Effects of Overexposure:EFFECTIONS OF CHRONIC OVEREXPOSURE: WEAKNESS,
HEADACHE, DEPRESSION, MENTAL TROUBLES, ANEMIA, METHEMOGLOBINEMIA,
CYANOSIS, NEPHRITIS. ANIMAL TUMORIGEN. POSSIBLE MUTAGEN. TO THE
BEST OF THE COMPANY'S KNOWL EDGE, CHEMICAL, PHYSICAL AND
TOXICOLOGICAL PROPERTIES OF THIS SUBSTANCE HAS NOT BEEN FULLY
INVESTIGATED. HEALTH HAZARDS ACUTE AND CHRONIC (CONT'D): OF
NITRITE POISONING INCLUDE CYANOSIS, NAUSEA, DIZZ INESS, INCREASED
HEART RATE AND
RESPIRATORY PARALYSIS.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE LIVER AND KIDNEYS.

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===== First Aid Measures =====
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First Aid:EYES: IMMEDIATELY FLUSH WITH COPIOUS QUANTITIES OF WATER FOR
AT LEAST 15 MINUTES, HOLDING LIDS APART TO ENSURE FLUSHING OF
ENTIRE SURFACE. SEEK IMMEDIATE MEDICAL ATTENTION. SKIN:
IMMEDIATELY FLUSH WI TH PLENTY OF WATER AND SOAP FOR AT LEAST 15
MIN, WHILE REMOVING CONTAMINAT

ED CLOTHING/SHOES. CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSING. INHALATION: REMOVE PATIENT TO FRESH AIR. ADMINISTER APPROVED OXYGEN SUPPLY IF BREATHING DIFFICULT. ADMINISTER ARTIFICIAL RESPIRATION OR CPR IF BREATHING HAS CEASED. CALL PHYSICIAN. INGESTION: IF CONSCIOUS, WASH OUT MOUTH WITH WATER. HAVE CONSCIOUS PERSON (SUPPLY SAFETY/HEALTH)

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

Autoignition Temp:Autoignition Temp Text:NO

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Lower Limits:NOT APPLICABLE

Upper Limits:NOT APPLICABLE

Extinguishing Media:USE FLOODING QUANTITIES OF WATER. COOL CONTAINING VESSELS WITH FLOODING QUANTITIES OF WATER UNTIL WELL AFTER FIRE IS OUT. MOVE CONTAINING VESSELS FROM FIRE IF WITHOUT RISK.

Fire Fighting Procedures:WEAR ADEQUATE PERSONAL PROTECTION TO PREVENT CONTACT WITH MATERIAL OR ITS COMBUSTION PRODUCTS. NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN A PRESSURE DEMAND OR OTHER

POSITIVE PRESSURE MODE. FIRE

DEGRADATION PRODUCTS: OXIDES OF NITROGEN AND SODIUM.

Unusual Fire/Explosion Hazard:POWERFUL OXIDIZING AGENT; MAY IGNITE OXIDIZABLE MATERIALS. CONTRIBUTES TO COMBUSTION OF OTHER MATERIALS. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE AND/OR EXPLOSION. PRODUCT SENSITIVE TO IMPACT. MAY EXPLODE BY FRICTION, SHOCK OR HEAT. EXPLODES IF HEATED TO 538C. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

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Spill Release Procedures:ELIMINATE ALL SOURCES IGNITION. SWEEP UP AND PLACE IN CONTAINER FOR DISPOSAL. AVOID RAISING DUST. VENTILATE AREA, WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. DO NOT EMPTY INTO DRAINS OR TOUCH SPILLED MATERIAL. AVOID COMBUSTIBLE MATERIAL (WOOD, PAPER, OIL, CLOTHING). SPILLS OF SODIUM NITRATE MUST BE PROMPTLY REMOVED. WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS/HEAVY RUBBER GLOVES.

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===== Handling and

Storage =====

Handling and Storage Precautions:DO NOT STORE NEAR ORGANIC OR FLAMMABLE SUBSTANCES. STORE BELOW 30C, IN COOL PLACE AWAY FROM HEATED AREAS; SPARKS AND FLAME. STORE IN WELL-VENTILATED AREA & AWAY FROM INCOMPATIBLE MATERIALS. DO NOT ADD ANY OTHER MATERIAL TO CONTAINER. DO NOT WASH DOWN DRAIN OR BREATHE DUST. (OTHER PRECAUTIONS)

Other Precautions:HANDLING/STORAGE (CONT'D): IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. KEEP AWAY FROM DIRECT SUNLIGHT OR STRONG INCANDESCENT LIGHT. KEEP CONTAINER TIGHTLY CLOSED AND DRY. MANIPULATE UNDER ADEQUATE FUME HOOD. USE ONLY EXPLOSION-PROOF EQUIPMENT & NON-SPARKING TOOLS. AVOID RAISING (TRANSPORT)

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

Respiratory Protection:A NIOSH-APPROVED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.

Ventilation:LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MINIMIZING DUST EMISSIONS AT POINT OF USE. MANIPULATE IN A WELL VENTILATED AREA OR UNDER AN ADEQUATE FUME HOOD.

Protective Gloves:NEOPRENE OR RUBBER GLOVES.

Eye Protection:ANSI-APPROVED CHEMICAL SAFETY GOGGLES & FULL FACESHIELD

Other Protective Equipment:EYE BATH AND EMERGENCY SHOWER MEETING ANSI DESIGN CRITERIA . PROTECTIVE CLOTHING: APRON OR CLOTHING TO PROTECT SKIN. SUFFICIENT TO PROTECT SKIN. RUBBER SUITS, APRONS, AND BOOTS.

Work Hygienic Practices:DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WASH WELL AFTER USE. DO NOT ALLOW SMOKING AND FOOD CONSUMPTION WHILE HANDLING. DO NOT WEAR CONTACT LENSES.

Supplemental Safety and Health
FIRST AID (CONT'D): DRINK SEVERAL GLASSES OF WATER TO DILUTE. INDUCE VOMITING BY STICKING FINGER IN THROAT. SEEK IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GUARD AGAINST ASPIRATION INTO LUNGS.

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

Boiling Pt.=308.C, 586.4F

B.P. T

ext:DECOMPOSES @308C
Melt/Freeze Pt:=306.8C, 584.2F
Vapor Density:NOT APPLIC
Spec Gravity:2.26 (WATER=1)
pH:5.5-8.3(5%-25C)
Solubility in Water:EASILY IN COLD WATER.
Appearance and Odor:WHITE CRYSTALS; ODORLESS.
Percent Volatiles by Volume:0% @ 21C

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

Stability Indicator/Materials to Avoid:NO
MAY CAUSE FIRE OR EXPLOSION WITH REDUCING AGENTS, COMBUSTIBLE
MATERIALS, ORGANIC MATERIALS, POWDERED METALS, PHOSPHORUS,
CYANIDES,
THIOCYANATES, ISOTHIOCYANATES, HYPOPHOSPHITES, ESTERS,
CHLORIDES, BORON PHOSPHIDE, ANTIMONY,
Stability Condition to Avoid:UNSTABLE. MAY EXPLODE IF HEATED BY
FRICTION OR SHOCK.
Hazardous Decomposition Products:NOT AVAILABLE. REACTION PRODUCTS:
WITH AMINES, NITROSAMINES MAY BE FORMED WHICH HAVE BEEN PROVEN TO
BE CARCINOGENIC IN ANIMAL TESTS. CONTACT WITH OTHER MATERIAL MAY
CAUSE FIRE AND/OR EXPLOSION.

===== Toxicological Information =====

Toxicol
ogical Information:TOXICITY VALUES OF HAZARDOUS INGREDIENTS:
SODIUM NITRATE: ORAL (LD50): ACUTE: 2680 MG/KG (RABBIT). 3236 MG/KG
(RAT). ORAL (LDLO): ACUTE: 114 MG/KG (MAN). MATERIALS TO AVOID
(CONT'D): RHODANIDE, SODIUM HYPOPHOSPHITE, SULFUR AND CHARCOAL,
SULFIDES, SODIUM ACETATE, TRICHLOROETHYLENE, ZINC, BARIUM,
ALUMINUM AND ALUMINUM OXIDE, STANNOUS CHLORIDE, PHOSPHAM, SODIUM
THIOSULFATE, HYDRAZINE, PYROSULFITES, BISULFITES, AMIDES, AMMONIUM
SULFATE.

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===== Ecological Information =====

Ecological:N/P.

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

Waste Disposal Methods:IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE,
AND FEDERAL REGULATIONS .

===== MSDS Transport Information =====

Transport Information:TDG ROAD/RAIL: TDG CLASS: 5.1. PIN: UN1498 PG:
III. OTHER PRECAUTIONS (CONT'D): DUST. EMPTY CONTAINER MAY CONTAIN
EXPLOSIVE OR FLAMMABLE RESIDUE. SINC

E PRODUCT UNSTABLE, AVOID

SUDDEN SHOCKS LIKE DROP PING/ROLLING. DO NOT DROP, ROLL OR SKID CONTAINER. MINIMIZE DUST GENERATION & EXPOSURE-USE DUST MASK/APPROPRIATE PROTECTION. PRODUCT MUST BE MANIPULATED BY QUALIFIED PERSONNEL. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. HANDLE & OPEN CONTAINER WITH CARE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH WELL AFTER USE. IN ACCORDANCE WITH GOOD STORAGE & HANDLING PRACTICES. (SARA TITLE III)

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Regulatory Information =====

SARA Title III Information:N/P. TRANSPORT INFORMATION (CONT'D): DO NOT ALLOW SMOKING AND FOOD CONSUMPTION WHILE HANDLING. AVOID CONTACT WITH A COMBUSTIBLE MATERIAL (WOOD, PAPER, OIL, CLOTHING...). NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

Federal Regulatory Information:WHMIS CLASS: C D-2A.

State Regulatory Information:N/P. SPECIAL PRECAUTIONS OR COMMENTS:

POWERFUL OXIDIZING AGENT; MAY IGNITE OXIDIZABLE MATERIALS. TUMORIGENIC! IRRITANT! POSSIBLE MUTAGEN! DO NOT BREATHE DUST. AVOID ALL CONTACT WITH THE PRODUCT. MANIPULATE IN A WELL-VENTILATED AREA OR UNDER ADEQUATE FUME HOOD. KEEP AWAY FROM HEAT, SPARKS AND FLAME. RISK OF EXPLOSION BY SHOCK, FRICTION, FIRE OR OTHER SOURCES OF IGNITION. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE AND/OR EXPLOSION.

===== Other Information =====

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