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MSDS

Common Name: INSTANT COLD PACK**Manufacturer:** RAPID AID CANADA**MSDS Revision Date:** 3/18/2009**Grainger Item Number(s):** 1PCH4, 1PCK2, 1PCK4, 1PCK6, 2AG23, 3EWK3, 3EWK4, 3EWK5, 3JNX3, 3LPG2, 3UZA6, 3UZC2, 3UZH2, 3UZH3, 5AC21, 8GPY6, 8NLK3, 9J632, 9NY01, 9RL66**Manufacturer Model Number(s):** 02-06-67, 03-20-42

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RAPID AID

RAPID AID LTD.
4120A SLADEVIEW CRESCENT
UNITS 1 - 4
MISSISSAUGA, ON L5L 5Z3

RAPID AID INSTANT COLD PACK

MSDS REVISION DATE (DD/MM/YYYY): 18/03/2009

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION



PRODUCT IDENTIFIER: RAPID AID INSTANT COLD PACK

PRODUCT USE:

PROVIDES RELIEF FOR BRUISES AND SWELLING, MUSCLE SPASM AND PAIN, HEADACHES AND MINOR INJURIES.

CHEMICAL FAMILY: INORGANIC AMMONIUM SALT.

SUPPLIER'S NAME AND ADDRESS:RAPID AID LTD.
4120A SLADEVIEW CRESCENT
UNITS 1 - 4
MISSISSAUGA, ON, L5L 5Z3
CANADA

MANUFACTURER'S NAME AND ADDRESS: REFER TO SUPPLIER

INFORMATION TELEPHONE NO.: (905) 820-4788

24 HR. EMERGENCY TEL #: (905) 820-4788

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENTS	CAS#	% (WEIGHT)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
AMMONIUM NITRATE	6484-52-2	40.00 - 70.00	N/AV	N/AV	N/AV	N/AV

SECTION 3 - HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WHITE, ODORLESS SOLID CHEMICAL SUPPLIED WITH WATER BAG.

THIS PRODUCT MAY BE CONSIDERED A 'MANUFACTURED ARTICLE' OR 'MEDICAL DEVICE'. HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS:

DANGER. STRONG OXIDIZER WHICH WILL PROMOTE COMBUSTION. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

MAY EXPLODE IN FIRE. THIS PRODUCT REACTS WITH ACIDS EVOLVING CONSIDERABLE HEAT.

MAY BE HARMFUL IF INHALED OR SWALLOWED.

MAY CAUSE HEADACHE, NAUSEA, DIZZINESS AND OTHER SYMPTOMS OF CENTRAL NERVOUS SYSTEM DEPRESSION.

CAN CAUSE CYANOSIS. CONTAINS MATERIAL WHICH MAY CAUSE ADVERSE BLOOD SYSTEM EFFECTS.

CHEMICAL FROM DAMAGED, ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS: ACTIVATION RESULTS IN CHEMICALS MIXING INSIDE THE COLD PACK. THE REACTION THAT OCCURS IS ENDOTHERMIC, CAUSING THE SOLUTION TO BECOME COLD.

PROLONGED CONTACT MAY CAUSE NUMBNESS. CAUSES LITTLE OR NO IRRITATION.

POTENTIAL HEALTH EFFECTS:

TARGET ORGANS:

EYES, SKIN, DIGESTIVE SYSTEM, RESPIRATORY SYSTEM, BLOOD SYSTEM.

ROUTES OF EXPOSURE:

INHALATION: YES

SKIN ABSORPTION: NO

SKIN & EYES: YES

INGESTION: YES

SIGNS AND SYMPTOMS OF SHORT-TERM (ACUTE) EXPOSURE:

INHALATION: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS: INHALATION OF DUST MAY CAUSE SHORTNESS OF BREATH, TIGHTNESS OF THE CHEST, A SORE THROAT AND COUGH. IRRITATING OR NOXIOUS GASES MAY BE RELEASED DURING THERMAL DECOMPOSITION. INHALATION OF HIGH CONCENTRATIONS MAY CAUSE UNCONSCIOUSNESS AND CYANOSIS (BLUISH DISCOLORATION OF THE SKIN).

SKIN: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS: MAY CAUSE MILD SKIN IRRITATION.

SKIN CONTACT MAY PROVOKE THE FOLLOWING SYMPTOMS: RED, PUFFY, ITCHING SKIN.

CHEMICAL FROM DAMAGED, ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS: PROLONGED CONTACT MAY CAUSE NUMBNESS. CAUSES LITTLE OR NO IRRITATION.

EYES: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING

HAZARDS:DIRECT EYE CONTACT MAY CAUSE SLIGHT REDNESS.

CHEMICAL FROM DAMAGED, ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS:
CONTACT WITH EYES MAY CAUSE IRRITATION.

SYMPTOMS INCLUDE:

INFLAMMATION OF EYE TISSUE, CHARACTERIZED BY REDNESS, WATERING, AND/OR
ITCHING.

INGESTION: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

CHEMICAL FROM DAMAGED COLD PACK MAY HAVE THE FOLLOWING HAZARDS:
MAY CAUSE IRRITATION OF MOUTH, THROAT, AND STOMACH. SYMPTOMS MAY INCLUDE
NAUSEA, VOMITING, DIZINESS, DROWSINESS AND OTHER SYMPTOMS OF CENTRAL NERVOUS
SYSTEM DEPRESSION. INGESTION OF LARGE QUANTITIES OF NITRATES MAY AFFECT
OXYGEN TRANSPORT IN THE BLOOD AND BLOOD SYSTEM, CAUSING METHEMOGLOBINEMIA.
LARGE DOSES CAN CAUSE SHOCK, CONVULSIONS, COMA AND EVENTUAL DEATH.

EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE:

HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

CHEMICAL FROM DAMAGED COLD PACK MAY HAVE THE FOLLOWING HAZARDS:
CONTAINS MATERIAL WHICH MAY CAUSE ADVERSE BLOOD SYSTEM EFFECTS.

CONDITIONS AGGRAVATED BY OVEREXPOSURE:

PRE-EXISTING SKIN, EYE AND RESPIRATORY DISORDERS.

CARCINOGENIC STATUS: SEE TOXICOLOGICAL INFORMATION, SECTION 11.

ADDITIONAL HEALTH HAZARDS:

NONE KNOWN OR REPORTED BY THE MANUFACTURER. SEE TOXICOLOGICAL INFORMATION,
SECTION 11.

POTENTIAL ENVIRONMENTAL EFFECTS: SEE ECOLOGICAL INFORMATION, SECTION 12.

SECTION 4 - FIRST AIR MEASURES



INHALATION: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

RECOMMENDED FIRST AID FOR EXPOSURE TO CHEMICAL FROM DAMAGED COLD PACK:
IMMEDIATELY REMOVE PERSON TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE
ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN BY QUALIFIED
MEDICAL PERSONNEL ONLY. GET MEDICAL ATTENTION.

SKIN CONTACT: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

RECOMMENDED FIRST AID FOR EXPOSURE TO CHEMICAL FROM DAMAGED COLD PACK:
FOR SKIN CONTACT, FLUSH WITH WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING
CONTAMINATED CLOTHING. IF IRRITATION OCCURS OR PERSISTS, SEEK MEDICAL
ATTENTION.

EYE CONTACT: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

RECOMMENDED FIRST AID FOR EXPOSURE TO CHEMICAL FROM DAMAGED COLD PACK:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.
GET MEDICAL ATTENTION.

INGESTION: HARMFUL EFFECTS ARE NOT EXPECTED UNDER NORMAL USAGE.

RECOMMENDED FIRST AID FOR EXPOSURE TO CHEMICAL FROM DAMAGED COLD PACK:
DO NOT INDUCE VOMITING. HAVE VICTIM RINSE MOUTH WITH WATER, THEN GIVE ONE TO
TWO GLASSES OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN
UNCONSCIOUS PERSON. SEEK IMMEDIATE MEDICAL ATTENTION/ADVICE.

NOTES FOR PHYSICIAN: TREAT SYMPTOMATICALLY.

SECTION 5 - FIRE FIGHTING MEASURES



FIRE HAZARDS/CONDITIONS OF FLAMMABILITY:

EXPLOSIVE DECOMPOSITION MAY OCCUR UNDER FIRE CONDITIONS. HEAT OF
DECOMPOSITION MAY CAUSE CLOSED CONTAINERS TO BUILD UP PRESSURE AND EXPLODE.

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING

HAZARDS:STRONG OXIDIZER WHICH WILL PROMOTE COMBUSTION. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. THIS PRODUCT REACTS WITH ACIDS EVOLVING CONSIDERABLE HEAT.

FLAMMABILITY CLASSIFICATION (OSHA 29 CFR 1910.1200):
NOT FLAMMABLE UNDER NORMAL CONDITIONS OF HANDLING.

FLASH POINT: N/AP
FLASH POINT METHOD: N/AP

AUTO-IGNITION TEMPERATURE: N/AV

LOWER FLAMMABLE LIMIT (% BY VOL.): N/AP
UPPER FLAMMABLE LIMIT (% BY VOL.): N/AP

OXIDIZING PROPERTIES:

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING HAZARDS:STRONG OXIDIZER WHICH WILL PROMOTE COMBUSTION. WILL ACCELERATE COMBUSTION AND INCREASE THE RISK OF FIRE AND EXPLOSION IN COMBUSTIBLE OR FLAMMABLE MATERIALS.

FLAME PROJECTION LENGTH: N/AP
FLASHBACK OBSERVED: N/AP

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT / STATIC DISCHARGE:
EXPLOSIVE DECOMPOSITION MAY OCCUR UNDER FIRE CONDITIONS. HEAT OF DECOMPOSITION MAY CAUSE CLOSED CONTAINERS TO BUILD UP PRESSURE AND EXPLODE.

SUITABLE EXTINGUISHING MEDIA:
USE WATER SPRAY TO FIGHT FIRES. USE CHEMICAL EXTINGUISHING AGENTS WITH CAUTION. SOME CHEMICAL EXTINGUISHING AGENTS MAY ACCELERATE DECOMPOSITION.

SPECIAL FIRE-FIGHTING PROCEDURES/EQUIPMENT:
FIGHT FIRES FROM A SAFE DISTANCE. EVACUATE PERSONNEL TO SAFE AREAS. FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN POSITIVE PRESSURE MODE. A FULL-BODY CHEMICAL RESISTANT SUIT SHOULD BE WORN MOVE CONTAINERS FROM FIRE AREA IF SAFE TO DO SO. WATER SPRAY MAY BE USEFUL IN COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME.

HAZARDOUS COMBUSTION PRODUCTS: AMMONIA; NITROGEN OXIDES (NO_x).

NFPA RATING:
HEALTH 1
FLAMMABILITY 0
INSTABILITY 3
SPECIAL HAZARDS OX

0 - MINIMAL
1 - SLIGHT
2 - MODERATE
3 - SERIOUS
4 - SEVERE

SECTION 6 - ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:
ENSURE CLEAN-UP IS CONDUCTED BY TRAINED PERSONNEL ONLY. KEEP ALL OTHER PERSONNEL UPWIND AND AWAY FROM THE SPILL/RELEASE. WEAR SUITABLE PROTECTIVE EQUIPMENT. FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS:
ENSURE SPILLED PRODUCT DOES NOT ENTER DRAINS, SEWERS, WATERWAYS, OR CONFINED SPACES.

SPILL RESPONSE/CLEANUP:
PICK UP LOOSE ITEMS, AND PLACE IN CONTAINER FOR DISPOSAL.

RECOMMENDED CLEAN-UP PROCEDURE WHEN UN-ACTIVATED COLD PACKS ARE DAMAGED:
VENTILATE AREA OF RELEASE. REMOVE ALL SOURCES OF IGNITION. REMOVE COMBUSTIBLE MATERIALS. USE ONLY NON-SPARKING TOOLS AND EQUIPMENT IN THE CLEAN-UP PROCESS. COVER ANY SPILLED MATERIAL WITH NON-COMBUSTIBLE ABSORBENT

MATERIAL, SUCH AS VERMICULITE OR SAND, THEN PLACE ABSORBENT MATERIAL INTO A CONTAINER FOR LATER DISPOSAL (SEE SECTION 13). USE METHODS THAT DO NOT GENERATE DUSTS. NOTIFY THE APPROPRIATE AUTHORITIES AS REQUIRED.

RECOMMENDED CLEAN-UP PROCEDURES WHEN ACTIVATED COLD PACKS ARE DAMAGED: VENTILATE AREA OF RELEASE. REMOVE ALL SOURCES OF IGNITION. CONTAIN AND ABSORB SPILLED LIQUID WITH NON-COMBUSTIBLE, INERT ABSORBENT MATERIAL (E.G. SAND), THEN PLACE ABSORBENT MATERIAL INTO A CONTAINER FOR LATER DISPOSAL (SEE SECTION 13). NOTIFY THE APPROPRIATE AUTHORITIES AS REQUIRED.

PROHIBITED MATERIALS: DO NOT USE COMBUSTIBLE ABSORBENTS, SUCH AS SAWDUST.

SPECIAL SPILL RESPONSE PROCEDURES:
IN CASE OF A TRANSPORTATION ACCIDENT, IN THE UNITED STATES CONTACT CHEMTREC AT 1-800-424-9300 OR INTERNATIONAL AT 1-703-527-3887. IF A SPILL/RELEASE IN EXCESS OF THE EPA REPORTABLE QUANTITY IS MADE INTO THE ENVIRONMENT, IMMEDIATELY NOTIFY THE NATIONAL RESPONSE CENTER IN THE UNITED STATES (PHONE: 1-800-424-8002).

US CERCLA REPORTABLE QUANTITY (RQ): NONE REPORTED.

SECTION 7 - HANDLING AND STORAGE



SAFE HANDLING PROCEDURES:
USE IN A WELL-VENTILATED AREA. PROTECT FROM DAMAGE. KEEP AWAY FROM HEAT AND FLAME. KEEP AWAY FROM COMBUSTIBLE MATERIAL.

RECOMMENDED HANDLING PROCEDURES WHEN UN-ACTIVATED COLD PACK IS DAMAGED:
WEAR SUITABLE PROTECTIVE EQUIPMENT. AVOID BREATHING DUST. AVOID AND CONTROL OPERATIONS WHICH CREATE HIGH VAPOR OR DUST CONCENTRATIONS. DO NOT INGEST. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. NEVER RETURN CONTAMINATED MATERIAL TO ITS ORIGINAL CONTAINER. LABEL CONTAINERS APPROPRIATELY. WASH THOROUGHLY AFTER HANDLING.

RECOMMENDED HANDLING PROCEDURES WHEN ACTIVATED COLD PACK IS DAMAGED:
WEAR SUITABLE PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOR OR MIST. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS:
STORE IN A COOL, DRY, WELL-VENTILATED AREA. STORE AWAY FROM INCOMPATIBLES AND OUT OF DIRECT SUNLIGHT. INSPECT PERIODICALLY FOR DAMAGE OR LEAKS. NO SMOKING IN THE AREA. PROTECT FROM DAMAGE.

INCOMPATIBLE MATERIALS:
ACIDS; REDUCING AGENTS; COMBUSTIBLE MATERIALS; ORGANIC MATERIALS; REACTIVE METALS; FUEL; HALOGENATED COMPOUNDS; COPPER.

SPECIAL PACKAGING MATERIALS:
ALWAYS KEEP IN CONTAINERS MADE OF THE SAME MATERIALS AS THE SUPPLY CONTAINER.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION



VENTILATION AND ENGINEERING MEASURES:
NOT A HAZARD UNDER NORMAL CONDITIONS OF USE.

RECOMMENDED PROTECTIVE MEASURES WHEN COLD PACKS ARE DAMAGED:
USE GENERAL OR LOCAL EXHAUST VENTILATION TO MAINTAIN AIR CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION: NOT REQUIRED UNDER NORMAL CONDITIONS OF HANDLING.

RECOMMENDED PROTECTIVE MEASURES WHEN COLD PACKS ARE DAMAGED:
RESPIRATORY PROTECTION IS REQUIRED IF THE CONCENTRATIONS EXCEED THE TLV. ADVICE SHOULD BE SOUGHT FROM RESPIRATORY PROTECTION SPECIALISTS.

SKIN PROTECTION: NONE REQUIRED WHEN USED AS INTENDED.

RECOMMENDED PROTECTIVE MEASURES WHEN COLD PACKS ARE DAMAGED:
GLOVES IMPERVIOUS TO THE MATERIAL ARE RECOMMENDED. THE SUITABILITY FOR A SPECIFIC WORKPLACE SHOULD BE DISCUSSED WITH THE PRODUCERS OF THE PROTECTIVE GLOVES.

EYE / FACE PROTECTION: NONE REQUIRED WHEN USED AS INTENDED.

RECOMMENDED PROTECTIVE MEASURES WHEN COLD PACKS ARE DAMAGED:
CHEMICAL SPLASH GOGGLES ARE RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED UNDER NORMAL CONDITIONS.

RECOMMENDED PROTECTIVE MEASURES WHEN COLD PACKS ARE DAMAGED:
AN EYEWASH STATION AND SAFETY SHOWER SHOULD BE MADE AVAILABLE IN THE
IMMEDIATE WORKING AREA. OTHER EQUIPMENT MAY BE REQUIRED DEPENDING ON
WORKPLACE STANDARDS.

GENERAL HYGIENE CONSIDERATIONS:
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

RECOMMENDED PROTECTIVE MEASURES WHEN COLD PACKS ARE DAMAGED:
AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID BREATHING VAPORS, FUMES OR
DUST. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH HANDS BEFORE
BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT. WEAR ONLY CLEAN,
UNCONTAMINATED CLOTHES WHEN LEAVING PLACE OF WORK.

PERMISSIBLE EXPOSURE LEVELS:
FOR INDIVIDUAL INGREDIENT EXPOSURE LEVELS, SEE SECTION 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: SOLID

APPEARANCE: WHITE, ODORLESS SOLID CHEMICAL SUPPLIED WITH WATER BAG.

ODOR: ODORLESS

ODOR THRESHOLD: N/AV

pH: N/AV

BOILING POINT: 176.7 DEG. C (350 DEG. F) (DECOMPOSITION TEMPERATURE)

SPECIFIC GRAVITY: 1.725

MELTING/FREEZING POINT: N/AP

COEFFICIENT OF WATER/OIL DISTRIBUTION: N/AV

VAPOR PRESSURE (MMHg @ 20 DEG. C / 68 DEG. F): N/AP

SOLUBILITY IN WATER: COMPLETE

VAPOR DENSITY (AIR = 1): N/AP

EVAPORATION RATE (n-BUTYL ACETATE = 1): N/AP

VOLATILE ORGANIC COMPOUNDS (VOC'S): N/AV

VOLATILES (% BY WEIGHT): N/AV

SECTION 10 - REACTIVITY AND STABILITY DATA



STABILITY AND REACTIVITY:
STABLE UNDER THE RECOMMENDED STORAGE AND HANDLING CONDITIONS PRESCRIBED.
UNSTABLE WITH HEAT OR CONTAMINATION.

CHEMICAL FROM DAMAGED, UN-ACTIVATED COLD PACK MAY HAVE THE FOLLOWING
HAZARDS:STRONG OXIDIZER WHICH WILL PROMOTE COMBUSTION. CONTACT WITH
COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

HAZARDOUS POLYMERIZATION:
NOT EXPECTED UNDER PRESCRIBED STORAGE AND HANDLING CONDITIONS. DECOMPOSITION
MAY OCCUR AT EXTREMELY HIGH TEMPERATURES.

CONDITIONS TO AVOID:
AVOID HEAT AND OPEN FLAME. ENSURE ADEQUATE VENTILATION, ESPECIALLY IN
CONFINED AREAS. AVOID CONTACT WITH INCOMPATIBLE MATERIALS. KEEP OUT OF

DIRECT SUNLIGHT. KEEP AWAY FROM COMBUSTIBLE MATERIAL.

MATERIALS TO AVOID AND INCOMPATIBILITY:
SEE SECTION 7 (HANDLING AND STORAGE) FOR FURTHER DETAILS.

HAZARDOUS DECOMPOSITION PRODUCTS:
NONE KNOWN, REFER TO HAZARDOUS COMBUSTION PRODUCTS IN SECTION 5.

SECTION 11 - TOXICOLOGICAL INFORMATION



TOXICOLOGICAL DATA:
THERE IS NO AVAILABLE DATA FOR THE PRODUCT ITSELF, ONLY FOR THE INGREDIENTS.
REFER TO SECTION 2 FOR INDIVIDUAL INGREDIENT LD50'S AND LC50'S.

INGREDIENTS	LC50 (4HR)	LD50	
	INH, RAT	ORAL	DERMAL
AMMONIUM NITRATE	>88,800 MG/M3	2217 MG/KG (RAT)	N/AV

CARCINOGENIC STATUS:
NO COMPONENTS ARE LISTED AS CARCINOGENS BY ACGIH, IARC, OSHA OR NTP.

REPRODUCTIVE EFFECTS: NOT EXPECTED TO HAVE OTHER REPRODUCTIVE EFFECTS.

TERATOGENICITY: NOT EXPECTED TO BE A TERATOGEN.

MUTAGENICITY: NOT EXPECTED TO BE MUTAGENIC IN HUMANS.

EPIDEMIOLOGY: NO INFORMATION AVAILABLE.

SENSITIZATION TO MATERIAL:
NOT EXPECTED TO BE A SKIN OR RESPIRATORY SENSITIZER.

SYNERGISTIC MATERIALS: N/AV

IRRITANCY: MILD SKIN IRRITANT. MAY CAUSE EYE IRRITATION.

OTHER IMPORTANT HAZARDS: NONE KNOWN OR REPORTED BY THE MANUFACTURER.

SECTION 12 - ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS:
THE PRODUCT SHOULD NOT BE ALLOWED TO ENTER DRAINS OR WATER COURSES, OR BE DEPOSITED WHERE IT CAN AFFECT GROUND OR SURFACE WATERS.

IMPORTANT ENVIRONMENTAL CHARACTERISTICS:
NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.

ECOTOXICOLOGICAL: NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.

SECTION 13 - DISPOSAL CONSIDERATIONS



HANDLING FOR DISPOSAL:
HANDLE WASTE ACCORDING TO RECOMMENDATIONS IN SECTION 7. EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS.

METHODS OF DISPOSAL:
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. CONTACT YOUR LOCAL, STATE, PROVINCIAL OR FEDERAL ENVIRONMENTAL AGENCY FOR SPECIFIC RULES.

RCRA:
IF THIS PRODUCT, AS SUPPLIED, BECOMES A WASTE IN THE UNITED STATES, IT MAY MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER RCRA, TITLE 40 CFR 261. IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO DETERMINE THE PROPER WASTE IDENTIFICATION AND DISPOSAL METHOD.

SECTION 14 - TRANSPORTATION INFORMATION



REGULATORY INFORMATION	UN NUMBER	SHIPPING NAME	CLASS	PACKING GROUP	LABEL
TDG	UN1942	AMMONIUM NITRATE	5.1	III	CLASS 5.1, OXIDIZING SUBSTANCES

TDG ADDITIONAL INFORMATION:

WITHIN CANADA ONLY, THIS PRODUCT MAY BE SHIPPED ACCORDING TO THE 500 KG GROSS MASS EXEMPTION. EACH MEANS OF CONTAINMENT MUST BE MARKED WITH EITHER THE DANGEROUS GOODS SAFETY MARKS REQUIRED BY PART 4 OR THE PROPER SHIPPING NAME. THE DANGEROUS GOODS MUST BE ACCOMPANIED BY A PROPER SHIPPING DOCUMENT. REFER TO TDG SECTION 1.16 FOR DETAILED INFORMATION ON THIS EXEMPTION. IF SHIPPING BY GROUND TO DESTINATIONS OUTSIDE CANADA, THE LIMITED QUANTITY EXEMPTION MAY BE USED. UNDER THE TDGR, REFER TO SECTION 1.17 FOR ADDITIONAL EXEMPTION INFORMATION, IF SHIPPING UNDER THIS EXEMPTION.

49 CFR/DOT	UN1942	AMMONIUM NITRATE	LIMITED QUANTITY	III	UN****
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49 CFR/DOT ADDITIONAL INFORMATION:

AS SUPPLIED, THIS PRODUCT CAN BE SHIPPED AS A LIMITED QUANTITY IN THE UNITED STATES. THE UN NUMBER PLACED WITHIN THE SQUARE-ON-POINT BORDER APPEARING HERE, OR THE PROPER SHIPPING NAME, MUST APPEAR ON THE PACKAGE IN ACCORDANCE WITH 49 CFR PART 172.315.

ICAO/IATA	UN1942	AMMONIUM NITRATE	5.1	III	CLASS 5.1, OXIDIZING SUBSTANCES
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ICAO/IATA ADDITIONAL INFORMATION:

REFER TO ICAO/IATA PACKING INSTRUCTION: Y516, 516 OR 518. REVIEW ALL STATE AND OPERATOR VARIATIONS, PRIOR TO SHIPPING THIS MATERIAL.

SECTION 15 - REGULATORY INFORMATION

US FEDERAL INFORMATION:

TSCA:

ALL LISTED INGREDIENTS APPEAR ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY.

OSHA:

THIS MATERIAL IS NOT CLASSIFIED AS HAZARDOUS UNDER OSHA REGULATIONS (29 CFR PART 1910.1200). THIS PRODUCT IS CONSIDERED AN 'ARTICLE' UNDER 29 CFR PART 1910.1200.

CERCLA REPORTABLE QUANTITY (RQ) (40 CFR 117.302): NONE REPORTED.

SARA TITLE III:

SEC. 302, EXTREMELY HAZARDOUS SUBSTANCES, 40 CFR 355:
NO EXTREMELY HAZARDOUS SUBSTANCES ARE PRESENT IN THIS MATERIAL.

SARA TITLE III:

SEC. 311 AND 312, MSDS REQUIREMENTS, 40 CFR 370 HAZARD CLASSES: NONE.

IF OUTER CONTAINERS ARE DAMAGED AND LEAKING:

REACTIVE HAZARD; IMMEDIATE (ACUTE) HEALTH HAZARD; CHRONIC HEALTH HAZARD.

SARA TITLE III:

SEC 313, TOXIC CHEMICALS NOTIFICATION, 40 CFR 372:
THIS MATERIAL IS NOT SUBJECT TO SARA NOTIFICATION REQUIREMENTS, SINCE IT DOES NOT CONTAIN ANY TOXIC CHEMICAL CONSTITUENTS ABOVE DE MINIMUS CONCENTRATIONS.

US STATE RIGHT TO KNOW LAWS:

NEW JERSEY LABELING REQUIREMENTS:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES REQUIRED TO BE DISCLOSED ON

PRODUCT LABELING:
AMMONIUM NITRATE (CAS # 6484-52-2)
WATER (CAS # 7732-18-5).

CALIFORNIA PROPOSITION 65:
TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS
KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE HARM.

OTHER U.S. STATE "RIGHT TO KNOW" LISTS:

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES:
AMMONIUM NITRATE (MA, PA, RI).

INTERNATIONAL INFORMATION:

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) INFORMATION:
ALL INGREDIENTS LISTED APPEAR ON THE DOMESTIC SUBSTANCES LIST (DSL).

CANADIAN WHMIS CLASSIFICATION:
THIS PRODUCT IS NOT A WHMIS CONTROLLED PRODUCT IN CANADA. THIS PRODUCT MAY
BE CONSIDERED A 'MANUFACTURED ARTICLE' OR 'MEDICAL DEVICE'.

FOR INFORMATIONAL PURPOSES, THIS PRODUCT WOULD HAVE THE FOLLOWING WHMIS
CLASSIFICATION:
CLASS C (OXIDIZING MATERIAL);
CLASS D2B (MATERIALS CAUSING OTHER TOXIC EFFECTS, TOXIC MATERIAL)

THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE CPR
AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

SECTION 16 - OTHER INFORMATION



HMIS RATING:
HEALTH 1
FLAMMABILITY 0
REACTIVITY 3

* - CHRONIC HAZARD
0 - MINIMAL
1 - SLIGHT
2 - MODERATE
3 - SERIOUS
4 - SEVERE

LEGEND:

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CAS: CHEMICAL ABSTRACT SERVICES

CERCLA:
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF
1980

DOT: DEPARTMENT OF TRANSPORTATION

EPA: ENVIRONMENTAL PROTECTION AGENCY

HMIS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HSDB: HAZARDOUS SUBSTANCES DATA BANK

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

INH: INHALATION

LC: LETHAL CONCENTRATION

LD: LETHAL DOSE

MA: MASSACHUSETTS

MSHA: MINE SAFETY AND HEALTH ADMINISTRATION

N/AP: NOT APPLICABLE

N/AV: NOT AVAILABLE

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION

NIOSH: NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

NTP: NATIONAL TOXICOLOGY PROGRAM

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PA: PENNSYLVANIA

PEL: PERMISSIBLE EXPOSURE LIMIT

RCRA: RESOURCE CONSERVATION AND RECOVERY ACT

RI: RHODE ISLAND

RTECS: REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

SARA: SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT

STEL: SHORT TERM EXPOSURE LIMIT

TDG: CANADIAN TRANSPORTATION OF DANGEROUS GOODS ACT & REGULATIONS

TLV: THRESHOLD LIMIT VALUES

TWA: TIME WEIGHTED AVERAGE

TSCA: TOXIC SUBSTANCE CONTROL ACT

WHMIS: WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

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PREPARED FOR:

RAPID AID LTD.
4120A SLADEVIEW CRESCENT
UNITS 1 - 4
MISSISSAUGA, ON, L5L 5Z3
CANADA

TELEPHONE: 905-820-4788

PLEASE DIRECT ALL ENQUIRIES TO RAPID AID.

PREPARED BY:

ICC THE COMPLIANCE CENTER INC.
CANADA: 1-888-977-4834
USA: 1-888-442-9628
HTTP://WWW.THECOMPLIANCECENTER.COM

RAPID AID(TM)

ICC

THE COMPLIANCE CENTER INC.
HAZARDOUS MATERIALS REGULATIONS SPECIALISTS

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