

MSDS Preparation Date (dd/mm/yyyy): 25/04/2011

MSDS No.:RAPID-007

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MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFIC	SECTION 1: IDENTIFICATION				
Product identifier	RAPID AID INSTANT COLD PACK/COMPRESS				
Product Code(s) Product Use	None reported. Relief of bruises, swelling, muscle spasm, pain, headache swelling for sprains, sore joints, first aid for sporting injuries.	е			
Chemical Family	Inorganic ammonium salt.				
Supplier's name and addre	Manufacturer's name and address:				
Rapid Aid Ltd. 4120A Sladeview Crescent, L Mississauga, ON, Canada L5L 5Z3	Refer to Supplier				
Information Telephone #	(905) 820-4788				
24 Hr. Emergency Tel #	(905) 820-4788				
SECTION 2 - HAZARDS	ENTIFICATION				
Classification	WHMIS classification: This product is not a WHMIS controlled product in Canada. This product may be considered a 'manufactured article' or 'medical device'. However, if the article is damaged and/or material is released, contents are harmful. For informational purposes, this product would have the following WHMIS classification Class C (Oxidizing Material) Class D2B (Materials Causing Other Toxic Effects, Toxic Material) OSHA Classification: This material is not classified as hazardous under OSHA	ver, n:			
Emorgonov Ovorviow	regulations (29 CFR Part 1910.1200). This product is considered an 'article' under a CFR Part 1910.1200. However, if the article is damaged and/or material is released contents are harmful. For informational purposes, this product would have the following OSHA classification; Oxidizer Acute Health Hazard Chronic Health Hazard Beige-brown, odorless solid chemical supplied with water bag.				
Emergency Overview	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 cause fire. This product reacts with acids evolving considerable heat. May be harmful if inhale swallowed. May cause headache, nausea, dizziness and other symptoms of central nervou system depression. Can cause cyanosis. Contains material which may cause adverse blood system effects.	ed or			
	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:

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).



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Skin : Harmful effects	are not expected under normal usage.	
	damaged, un-activated cold pack may have the following haza skin irritation. Skin contact may provoke the following sympto	
Chemical from c Prolonged conta	damaged, activated cold pack may have the following hazards act may cause numbness. Causes little or no irritation.	:
<i>Eyes</i> : Harmful effects	are not expected under normal usage.	
Chemical from c causes eye irrita	damaged, un-activated cold pack may have the following haza ation.	rds: Direct contact
Contact with eye	damaged, activated cold pack may have the following hazards: es may cause irritation. Symptoms include: Inflammation of ey- ering, and/or itching.	
-	are not expected under normal usage.	
May cause irrita diziness, drowsi quantities of nitr methemoglobine Effects of long-term (chronic) expe	damaged cold pack may have the following hazards: tion of mouth, throat, and stomach. Symptoms may include more ness and other symptoms of central nervous system depression ates may affect oxygen transport in the blood and blood syste emia. Large doses can cause shock, convulsions, coma and e osure larmful effects are not expected under normal usage.	on. Ingestion of large m, causing
m	hemical from damaged cold pack may have the following haza naterial which may cause adverse blood system effects. ee TOXICOLOGICAL INFORMATION, Section 11.	ards: Contains
Additional health hazards : S	ee TOXICOLOGICAL INFORMATION, Section 11.	
Potential environmental effects		
: 5	ee ECOLOGICAL INFORMATION, Section 12.	

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt.%
Ammonium nitrate	6484-52-2	31.20 - 54.60
Magnesium nitrate	10377-60-3	0.80 - 1.40

Non Hazardous Ingredients: Dolomite (CAS: 16389-88-1) 8 - 14%

SECTION 4 - FIRST AID MEASURES				
Inhalation	: Harmful effects are not expected under normal usage.			
Skin contact	 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. Harmful effects are not expected under normal usage. 			
Eye contact	 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 or symptoms develop, seek medical attention. 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.			



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Ingestion	Harmful effects are not expected under normal usage.		
Notes For Physician :	Recommended first aid for exposure to chemical from damaged on Do not induce vomiting. Have victim rinse mouth with water, then glasses of water to drink. Never give anything by mouth to an unce Seek immediate medical attention/advice.	give one to two	
SECTION 5 - FIRE FIGHT	ING MEASURES		
Fire hazards/conditions of flam			
	 Closed containers may rupture if exposed to excess heat or flame internal pressure. 	due to a build-up of	
	Chemical from damaged, un-activated cold pack may have the fo Strong oxidizer which will promote combustion. Contact with coml cause fire.		
Flammability classification (OS			
	Not flammable under normal conditions of handling.		
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.		
	mechanical impact / static discharge		
	Not expected to be sensitive to mechanical impact or static discharge.		
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 procedure			
	Fight fires from a safe distance. Evacuate personnel to safe areas wear proper protective equipment and self-contained breathing ap piece operated in positive pressure mode. A full-body chemical re worn Move containers from fire area if safe to do so. Water spray cooling equipment exposed to heat and flame.	oparatus with full face sistant suit should be	
Hazardous combustion produc	cts		
	Ammonia, Metal oxides, Carbon dioxide, carbon monoxide, and ox	-	
NFPA Rating	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious Health: 1 Flammability: 0 Instability: 3 Special	4 - Severe Hazards: OX	
	· · ·		
SECTION 6 - ACCIDENTA			
Personal precautions	 Individuals involved in the cleanup must wear appropriate personal equipment. Refer to Section 8, EXPOSURE CONTROLS AND PE PROTECTION, for additional information on acceptable personal equipment. Keep all other personnel upwind and away from the specific personal section. 	ERSONAL protective	
Environmental precautions :	 Discharge into the environment must be avoided. Ensure spilled p enter drains, sewers, waterways, or confined spaces. For large sp prevent spreading. Uncontrolled discharge into water courses mu appropriate regulatory body. 	oills, dike the area to	
Spill response/cleanup	Pick up loose items, and place in container for disposal.		
	Recommended clean-up procedure when un-activated cold packs	are damaged:	

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.



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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 vapour 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	
SECTION 8 - EXPOSUR	E CONTROLS AND PERSONAL PROTECTION

Exposure Limits

	ACGI	<u>HTLV</u>	OSHA PEL		
Ingredients	TWA	<u>STEL</u>	PEL	<u>STEL</u>	
Ammonium nitrate	N/Av	N/Av	N/Av	N/Av	
Magnesium nitrate	N/Av	N/Av	N/Av	N/Av	
Ventilation and engineerir	ng measures				
	: Not a hazard under no	ormal conditions of us	e.		
	Use general or local e	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 no	ormal conditions of ha	ndling.		
Skin protection	Recommended protect Respiratory protection be sought from respiration : None required when	n is required if the con atory protection specia	centrations exceed the		
Eye / face protection	 Recommended protective measures when cold packs are damaged: Gloves impervious to the material are recommended. The suitability for a specif workplace should be discussed with the producers of the protective gloves. None required when used as intended. 				
	Recommended protect Chemical splash gogg			ed:	



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Other protective equipment	: None required under	r normal conditions.	
	An eyewash station	ective measures when cold packs and safety shower should be mad equipment may be required deper	e available in the immediate
General hygiene considerati	-		
	: Handle in accordance	e with good industrial hygiene and	d safety practice.
	Avoid contact with sl not eat, drink or smo	ective measures when cold packs kin, eyes and clothing. Avoid breat ke when using this product. Wash ndling the product. Wear only clea of work.	thing vapors, fumes or dust. Do hands before breaks and
SECTION 9 - PHYSICAI	L AND CHEMICAL	PROPERTIES	
Physical state	: Solid	Appearance	: Beige-brown, odorless solic chemical supplied with water bag.
Odour	: odourless	Odour threshold	: N/Av
pH	: N/Av		4.00
Boiling point	: 130°C (266°F) (Decomposition temperature)	Specific gravity	: 1.06
Melting/Freezing point	: 160 - 170°C (320 - 338°F)	Coefficient of water/oil of	listribution : N/Av
Vapour pressure (mmHg @ 2	: N/Ap	Solubility in water	: 1870 g/L @ 20°C (68°F)
Vapour density (Air = 1)	: N/Ap	Evaporation rate (n-Buty	/I acetate = 1) : N/Ap
Volatile organic Compounds	s (VOC's) : 0	Volatiles (% by weight)	: N/Av
Flash point	: N/Ap		
Flash point Method	: N/Ap	Auto-ignition temperature	
Lower flammable limit (% by	vol.) : N/Ap	Upper flammable limit (%	by vol.) : N/Ap
Flame Projection Length	: N/Ap	Flashback observed	: N/Ap
Section 10: Stability And	Reactivity		
Stability and reactivity	•	ommended storage and handling nation.	conditions prescribed. Unstable
	Strong oxidizer whic cause fire.	aged, un-activated cold pack may h will promote combustion. Contac	
Hazardous polymerization Conditions to avoid		n flame. Avoid contact with incom p away from combustible material	
Materials To Avoid And Inco	mpatibility : See Section 7 (Hand	lling and Storage) for further detai	ls.
Hazardous decomposition p	roducts : None known, refer to	b hazardous combustion products	in Section 5.
SECTION 11 - TOXICOI			
Target organs	: Eyes, skin, digestive	system, respiratory system, blood	d system.
Routes of exposure	: Inhalation: YES S	kin Absorption: NO Skin & Ey	es: YES Ingestion: YES

Routes of exposure: Inhalation: YESSkin Absorption: NOSkin & Eyes: YESIngestion: YESToxicological data: There is no available data for the product itself, only for the ingredients. See
below for individual ingredient acute toxicity data.



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	LC50(4hr)	LD ₅₀	
Ingredients	inh, rat	(Oral, rat)	(Rabbit, dermal)
Ammonium nitrate	> 88,800 mg/m ³	2217 mg/kg	N/Av
Magnesium nitrate	N/Av	5440 mg/kg	N/Av
Carcinogenic status Reproductive effects Teratogenicity Mutagenicity	 No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP. Not expected to cause reproductive effects. Not expected to be a teratogen. Not expected to be mutagenic in humans. 		
Epidemiology Sensitization to material Synergistic materials Irritancy	 No information available. Not expected to be a skin or respiratory sensitizer. N/Av Mild skin irritant. Moderate to severe eye irritant. 		
other important hazards Conditions aggravated by	: Components of the product create formation of methaemoglobin.		
contailione aggravated by	: Pre-existing skin, eye and r	espiratory disorders.	

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity		The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Chemical from damaged, un-activated cold pack may have the following hazards: Ammonium nitrate: LC50/48h/Cyprinus carpio (Freshwater fish) =65 - 85 mg/L Ingredients mixture: LC50/96h/Freshwater fish (Species not specified) = >100 mg/L
Mobility	:	No data is available on the product itself.
Persistence	:	No data is available on the product itself.
Bioaccumulation potential	:	No data is available on the product itself.
Other Adverse Environment	al e	ffects
	:	Released in excess quantities, ingredients of this product can cause eutrophication in

water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal	: Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Methods of Disposal	: If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state 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: TRANPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1477	NITRATES, INORGANIC, N.O.S.	5.1	III	5.1
TDG Additional information	Within Canada only, this product may be shipped according to the 500 kg Gross Mass Exemption. Refer to TDG Section 1.16 for detailed information on this exemption.				



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49CFR/DOT	UN1477	NITRATES, INORGANIC, N.O.S.	5.1	Ш	5.1	
49CFR/DOT Additional information	For shipments by ground within the United States, the Limited Quantity exception may apply. Refer to 49 CFR Sect 173.152 for additional Limited quantity shipping requirements.					

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); Magnesium nitrate (CAS#10377-60-3)

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)

Magnesium nitrate (MA, PA, RI)

International Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

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	*- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
5	Health: 1 Flammability: 0 Reactivity: 3
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



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	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		
References	 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 1. ACGIH, Threshold Limit Values and Biological Exposure Indices 2. International Agency for Research on Cancer Monographs 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases (Chempendium, HSDB and RTECs). 4. Material Safety Data Sheets from manufactuer. 5. US EPA Title III List of Lists 6. California Proposition 65 List 		
Prepared for:			

ared for:

Rapid Aid Ltd. 4120A Sladeview Crescent, Units 1 - 4 Mississauga, ON, Canada, L5L 5Z3 Telephone: 905-820-4788 Please direct all enquiries to Rapid Aid.

Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



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