Doc# 11040

APSA-80TM All Purpose Spray Adjuvant Concentrate

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: APSA-80TM All Purpose Spray Adjuvant Concentrate

DISTRIBUTED BY:

MSDS/PRODUCT INFORMATION:

Access Business Group International LLC 7575 Fulton Street East Ada, Michigan 49355 Business to Business Marketing Group 7575 Fulton Street East Ada, Michigan 49355 INFORMATION #: 1-800-992-6929, Ext. 5

For Poisoning Emergencies call 1-616-787-6307 (This is a 24-hour number)

HAZARDOUS INGREDIENTS

(per OSHA Hazard Communication Standard)

% in	CAS Number	COMMON NAME
Product		Chemical Name
<90		NONIONIC SURFACTANT
	127087-87-0 or	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched
	26027-38-3 or	Poly(oxy-1,2-cthancdiyl), alpha-(4-nonylphenyl)-omega-hydroxy-
	9016-45-9	Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-
<25		N-BUTYL ALCOHOL
	71-36-3	1-Butanol
<10		FATTY ACID
	112-80-1 or	9-Octadecenoic acid (9Z)-
	61790-12-3	Fatty acids, tall-oil
		This product contains n-butyl alcohol and may contain up to 3% glycol ethers which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and
	1	Reauthorization Act of 1986 and 40 CFR Part 372.

PHYSICAL AND CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (H₂0=1): 1.010-1.030 pH: 6.5-8.0 (as is) APPEARANCE AND ODOR: This product is a clear, light yellow, slightly viscous liquid with a pungent irritating odor.

PHYSICAL HAZARD DATA

HAZARDS: This product is combustible.

FIRE HAZARDS:

FLASH POINT: 125 degrees F (52 degrees C) Tag Closed Cap

FIRE FIGHTING TECHNIQUES: Standard: Wear full body protection. Wear self-contained breathing apparatus to protect against products of combustion. Usc water spray, foam, dry chemical, CO2. Cool containers with water. No explosion hazards identified.

REACTIVITY:

Stability: Stable Hazardous Polymerization: Will not occur.

APSA-80TM All Purpose Spray Adjuvant Concentrate

Conditions/material to Avoid: Avoid excessive heat, flame, contact with acids, strong oxidizers.

HEALTH HAZARD DATA

- EXPOSURE LIMIT: An exposure limit for this product has not been established. Exposure limits for product ingredients are listed below.
- PRIMARY ROUTES OF EXPOSURE/ENTRY: This product can affect the body if it contacts the skin or eyes, is absorbed through the skin, is inhaled or ingested.

SIGNS/SYMPTOMS/EFFECTS OF EXPOSURE:

SKIN CONTACT: This product is not a primary skin irritant. Prolonged or repeated skin contact with this product may cause dry skin. (see below)

EYE CONTACT: This product is a primary eye irritant.

INGESTION: Ingestion of this product may cause irritation of the mouth and throat, upset stomach, nausea, vomiting, and diarrhea.

INHALATION: Inhalation may cause irritation of the nose, throat, and lungs. (See below)

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders.

NOTES: Inhalation effects of this product other than respiratory irritation, and skin absorption effects of this product have not been determined. Inhalation and skin absorption effects of individual ingredients are noted below. A prediction as to whether these effects will be exhibited by the product as a whole is dependent on an evaluation of the product's use and extent and duration of exposure.

Inhalation overexposure to n-butyl alcohol vapors and mists may cause headache, nausea, dizziness, drowsincss. Experimental animals exposed to n-butyl alcohol vapors experienced blood, kidney and liver effects. Similar effects in humans exposed to concentrations below the OSHA (PEL (Permissible Exposure Limit) have not been noted. n-Butyl alcohol is skin absorbed. Dermal overexposure may result in the effects previously mentioned. The ACGIH ceiling TLV (Threshold Limit Value) is 50 ppm with a notation indicating skin absorption. The OSHA PEL is 100 ppm.

9-Octadecenoic acid (9Z)- caused chromosome aberration in yeast and in hamster fibroblast cells (cell culture tests).

EMERGENCY AND FIRST AID PROCEDURES

- SKIN CONTACT: Remove contaminated clothing and thoroughly rinse skin with water. Follow immediately with a thorough washing with soap and water. Then continue rinsing with water for 15 minutes. GET MEDICAL ADVICE by calling the emergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room. Launder contaminated clothing before reuse.
- EYE CONTACT: Remove contact lenses. Rinse with a gentle stream of lukewarm water for 15 minutes, holding cyclids open. IF IRRITATION DEVELOPS, GET MEDICAL ADVICE by calling the emergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room.
- INGESTION: If victim is a child, give 4-8 ounces of water. For adults, give 8-12 ounces of water. Do not induce vomiting when this product is swallowed. If vomiting occurs spontaneously, keep victim in an upright position. GET MEDICAL ADVICE by calling the emergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room.

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INHALATION: Remove to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE by calling the cmergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF SPILLED OR RELEASED: Eliminate sources of ignition. Wear appropriate personal protection equipment (respirator, gloves, goggles and/or face shield, boots, protective clothing). Contain/dike spill to prevent environmental release.

WASTE DISPOSAL: This product is a U.S. EPA RCRA hazardous waste. Dispose of in accordance with Federal, State and Local regulations.

HANDLING PRECAUTIONS

PROTECTIVE MEASURES: Wear appropriate protective measures to prevent eye and prolonged skin contact (glasses, goggles, rubber gloves, protective clothing). Minimize inhalation exposure (engineering controls, NIOSH-approved respiratory protection appropriate for the hazard presented).

WORK/HYGIENE PRACTICES: For good personal hygiene, insure prompt removal from skin and clothing.

DISCLAIMER

The information contained herein is believed to be accurate and represents the best information currently available to us, much of which comes from the manufacturer or supplier of components of this product. Therefore, Access Business Group LLC makes no warranty, express or implied, regarding the accuracy of the data. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the user's obligation to make certain that this MSDS is the most current MSDS for the product; to evaluate the information contained in this sheet in connection with the uses to which the product is to be put in the workplace and to use the product safely in accordance with applicable laws and regulations. If there are any questions concerning the information contained in this sheet or its applicability to a particular use, the user is instructed to telephone 1-800-992-6929, Option 5. Access Business Group LLC assumes no responsibility for injury from the use of the product described in this sheet in a way different from that provided in the label directions.



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HAZARDOUS CHEMICAL MATERIAL SAFETY DATA SHEET (Conforms to the Requirements of 29 CFR 1910.1200) PRODUCT TRADE NAME: ANMONIUM NITRATE 1. NAME AND ADDRESS OF MANUFACTURER: LADSHAW EXPLOSIVES, INC. P. O. Box 1754 A, Hobbs, New Mexico 88240 Physically Located at Hobbs Industrial Air Park 2. PREPARED BY: H. F. Bogatko DATE: November 5, 1985 **REVISION:** New 3. MEDICAL'EMERGENCY TELEPHONE NUMBERS: EAST OF THE MISSISSIPPI: 717 - 386 - 4121 WEST OF THE MISSISSIPPI: 417 - 624 - 0212 4. THE MATERIAL DESCRIBED IN THIS DATA SHEET IS A: SINGLE HAZARDOUS CHEMICAL 5. CHEMICAL AND COMMON NAMES OF HAZARDOUS CHEMICAL: Acizonium Nitrate 99.6 90 Nitric Acid, Ammonium Salt Armonium Nitrate Plus Water Solution CAS Number [6484-52-2] RTECS Number - BR905000 6. PHYSICAL AND CHEMICAL CHARACTERISTICS: Anhydrous 83% Solution Sclubility in Water - 100% Shipping Temperature - 120 + °C Specific Gravity - 1.725 Melting Point - 155°C Bulk Densicy - Prills 46 to 52 pounds per cubic foot Molecular Weight - 80.06 7. PHYSICAL HAZARDS: DOT HAZARD : OXIDIZER, can explode if burned in confinement. 8. HEALTH HAZARDS: o No data in RTECS which indicates a health hazard. o However, contact with eyes can cause pain and irritation, if prolonged. 9. PRIMARY ROUTE(S) OF ENTRY: No Data 10. PERMISSIBLE EXPOSURE LIMITS: No Data 11. LISTINGS: NTP ANNUAL REPORT IARC OSHA MATERIAL CARCINOGEN ON CARCINOGENS MONOCRAPHS No No No Ammonium Nitrate

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	RIAL SAFETY DATA SHEET UCT: MF-55	7 8
	GENCY FIRST AID PROCEDURES: Eyes: In case of contact, flush with plenty of water for at least 15 minutes. Call a physician.	
•••	Skin Contact: Remove contaminated clothing and immediately wash skin with soap and water. If irritation persists, get medical attention. If swallowed: Essentially non-toxic (See Section IX).	
	SECTION V - SPECIAL PROTECTION INFORMATION	
: }	VENTILATION TYPE REQUIRED:Local Exhaust (37) RESPIRATORY PROTECTION: None Required PROTECTION GLOVES: Rubber unless exposed to product mist. EYE PROTECTION: Safety glasses. [40] OTHER PROTECTIVE EQUIPMENT: None	
-	SECTION VI - HANDLING OF SPILLS OR LEAKS	
	PROCEDURES FOR CLEAN-UP: Dike area to contain as much spilled material as possible. Remove any remaining material by absorbing on vermiculite or other suitable absorbing material and place in a sealed metal container for disposal.	
•	WASTE DISPOSAL: Mix with a flammable solvent and incinerate in accordance to local, state, and federal regulations.	
)	SECTION VII - SPECIAL PRECAUTIONS	
- -	PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid contact with eyes, skin an clothing. Keep container closed. Wash thoroughly after handling. Product is slippery when wet. Exercise caution in the storage and handling of all chemical substances. Use only in a well ventilated area.	
	SECTION VIII - TRANSPORTATION DATA	
	UNREGULATED BY D.O.T.: Yes [45] REGULATED BY D.O.T.: NO TRANSPORTATION EMERGENCY INFORMATION;	1
: ;	U.S.D.O.T. PROPER SHIPPING NAME: Oil Well Treating Compound	
3) 2)	U.S.D.O.T. HAZARD CLASS: NA I.D. NUMBER: NA [50] RQ: NA [51] LABEL(8) REQUIRED: None FREIGHT CLASSIFICATION: Item #138640 NMF 100 G CLASS 50 SPECIAL TRANSPORTATION NOTES: None	
	SECTION IX ~ COMMENTS	
	The acute cral LD50 (rats) is > 10 ml/kg. The acute dermal LD50 (rabbits) is > 10 ml/kg (Test results on a simular product).	
	ston Late: 11/89	
	leve the statements, technical information and recommendations contained herein are le, but they are given without warranty or guarantee of any kind, express or implic assume no responsibility for any loss, damage, or expense, direct or consequential lost of their late.	ad,

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AQUAGEL	- / F	w bel

PRODUCT IDENTIFICATION		/		ļ
SUPPLIER NL BAROID	TELEPHO	DNE NO 7	13/987-5900	
ADDRESS P.O. BOX 1675 HOUSTON, TEXAS 77251	<u></u>			
TRADE NAME AQUAGEL ³	<u></u>			
GENERIC DESCRIPTION WYOMING BENTONITE, SODIUM MONTMORIL	LLONITE			
II HAZARDOUS INGREDIENTS	·····			
MATERIAL OR COMPONENT	*:	HAZARD DATA		
SILICA		LOW CONC	ENTRATIONS OF	He
		CRYSTALLI	NE SILICA (SiO ₂)	
		IN THE FOR	RM OF QUARTZ.	- 0
· · · ·		CRISTOBAL	ITE, AND TRIDYMITE	
`		MAY BE PRE	ESENT	FLA
		(SEE SECTIO	V NC	FLAMMABILITY
III PHYSICAL DATA		.A <u></u>		
BOILING POINT (°F) NA	MELTING	POINT ND	FREEZING POINT	
SPECIFIC GRAVITY (H:O = 1)	VAPOR P	VAPOR PRESSURE IMM Hgi NA		-
VAPOR DENSITY (AIR = 1) NA	SOLUBILI	SOLUBILITY IN H;O. % BY WT		
* VOLATILES BY VOL. NA	EVAPORA	EVAPORATION RATE (BUTYL ACETATE = 1) NA		
APPEARANCE AND ODOR LIGHT TAN TO GRAY POWDER, NO ODOR	Density @	Densily @ 20°C (Uncompacted): 49.4 Ibs/cubic foot		REACTIVITY
pH NA				

All information recommendations and suggestions herein concerning our product atbased upon tests and Gata believed to be reliable, however it is the user's responsibility to determine the safety foricity, and suitability for his own use of the product describe of early. Since the actual use by others is beyond our control, no guarantee, expression implied is made to the Petro eum Services, incl as forme effects of such use, the relicity of to be obtained, or the safety and toxicity of the product nor does NL Petroleum Services, L Incl assume any liability arising out of use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because cl'applicable laws or government regulations.

*Repistered Tracemark of NU Proustries, Inc.

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VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

THIS PRODUCT IS STABLE UNDER NORMAL DRILLING CONDITIONS.

INCOMPATIBILITY

NONE

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

NONE

VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

NORMAL HOUSEKEEPING, CAUSES SLIPPERY SURFACES WHEN WET.

NEUTRALIZING CHEMICALS

NA

WASTE DISPOSAL METHOD

MUD WASTES SHOULD BE DISPOSED OF IN DESIGNATED DISPOSAL AREAS. (i.e. GENERAL LANDFILLS OR DESIGNATED OCEAN DISPOSAL SITES).

VIII INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS

MECHANICAL, GENERAL ROOM VENTILATION USE LOCAL VENTILATION TO MAINTAIN TLV (SEE SECTION V)

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY

USE A NIOSH APPROVED MECHANICAL FILTER RESPIRATOR FOR NON TOXIC DUSTS.

EYE

NONE REQUIRED

GLOVES

NONE REQUIRED

OTHER CLOTHING AND EQUIPMENT

APRON, EYEWASH STATION



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IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

AVOID PROLONGED INHALATION.

RECOMMENDED LABEL:

FRONT PANEL: CAUTION SEE BACK PANEL FOR CAUTION BEFORE USE.

BACK PANEL: CAUTION

THIS PRODUCT CONTAINS FREE SILICA. PROLONGED INHALATION OF THE POWDER MAY RESULT IN LUNG DISEASE. AVOID CREATING DUSTY CONDITIONS AND USE A NIOSH APPROVED DUST RESPIRATOR.

OTHER HANDLING AND STORAGE REQUIREMENTS

AQUAGEL IS NON HAZARDOUS. NO HAZARDS ARE INVOLVED WITH NORMAL HANDLING.

DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS: NOT HAZARDOUS

HAZARDOUS SUBSTANCE: NONE

PREPARED BY NL Berold ENVIRONMENTAL SERVICES DATE JULY, 1987