

Material Safety Data Sheet

OIL FIELD CHEMICAL ADDITIVE

<u>NFPA RATING</u>		<u>HMIS RATING</u>	
Health -	2	Health -	2
Fire Hazard -	3	Fire Hazard-	3
Reactivity -	0	Reactivity -	0
<p>In Case of Medical Emergency Call – Local Poison Control Center or 911 In Case of Transportation Emergency Call -1-800-424-9300 (CHEMTREC) For Product Information Call – 1-501-607-3632</p> <p>Emergency Overview: Clear Liquid; Flammable; Corrosive; Strong Pungent Ammonia Odor</p>			

SECTION 1. Chemical Product and Company Identification

Product Name: Product #700	MSDS #: 04-0001
Product Use: Oil Field Additive	Formula#:
Manufacturer: Industrial Services of Arkansas, LLC 5708 Cadron Creek Road North Little Rock, AR 72116 501-834-1016	Validation Date: 01DEC04
	Supercedes: N/A
	Product Code #(s):

SECTION 2. Composition and Information on Ingredients**Chemical Formula: Proprietary Mixture****CAS #: None****Ingredients List:**

Name	CAS #	% By Weight	TLV	Hazard Data
HGC-1000-137	Proprietary Blend	<8%	Not Considered Hazardous	Not Considered Hazardous
HGC-1000-67	Proprietary Blend	<8%	Not Considered Hazardous	Not Considered Hazardous
2-Propanol	67-63-0	3% - 50%	LD 50 =1378 mg/kg	ACGIH
Ammonia	7664-41-7	.5% - 30%	LD50 350 mg/kg	TLV 25 ppm
Non Hazardous Component	7732-18-5	20% - 85%	Not Considered Hazardous	Not Considered Hazardous

SECTION 3. Hazards Identification

Emergency Overview: **FLAMMABLE! DANGER! CORROSIVE! MAY BE FATAL IF SWALLOWED. MIST AND VAPOR MAY CAUSE BURNS, RESPIRATORY DESTRESS OR EYE IRRITATION.**

Potential Health Effects: Routes of entry – Inhalation, skin contact, ingestion.

Eyes: Liquid, vapor, or mist causes irritation, experienced as stinging, excess blinking and tear production, with excess redness of the conjunctiva. High concentrations can be corrosive to eye tissue and may cause severe damage and blindness.

Skin: Corrosive. May cause redness and blistering of skin.

Ingestion: Corrosive. May cause burns to the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation or ulceration.

Inhalation: Vapors and mists cause respiratory irritation. Excessive inhalation may cause headache, dizziness, and nausea. Material is irritating to mucous membrane and upper respiratory tract. Exposure to higher concentrations can cause burns to the respiratory tract, coughing, pulmonary edema, or respiratory arrest.

Overexposure: Repeated exposure may cause damage to the tissues of the mucous membranes, upper respiratory tract, eyes and skin.

SECTION 4. First Aid Measures

Eye Contact In case of contact, check for and remove any contact lenses, then hold eye lids open and flush with a gentle stream of water (or eyewash solution) for at least 15 minutes. If irritation persists, seek medical attention immediately.

Skin Contact If irritation develops from contact with the skin, flush with copious amounts of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if the condition persists.

Inhalation If inhaled, remove victim to fresh air immediately. Support breathing with oxygen or artificial respiration if necessary. Seek medical attention if symptoms persist.

Ingestion If swallowed, **DO NOT INDUCE VOMITING**, give large quantities of water. May drink orange juice, citrus juice, or diluted vinegar to counteract

ammonia. Seek immediate medical attention. *Note: Never give anything by mouth to an unconscious person.*

SECTION 5. Fire Fighting Measures

Flammability of the Product: Product is flammable.

Auto Ignition Temperature: 399°C/750°F

Flash Points: 71.1°C/160°F

Fire Fighting Media Instructions: Recommended media is alcohol type or all purpose foams by manufacturers' recommended techniques for large fires; dry chemical media for small fires. Water may be used but will mix with this product and waste disposal requirements will increase. Burning may produce ammonia, nitrogen oxides, carbon monoxide and unidentified organic compounds.

SECTION 6. Accidental Release Measures

Spill or Leak: This product is flammable. Stop source if possible. Remove any ignition source and ventilate spill site. Wear protective gear including respirator, goggles, gloves, boots, etc. Contain large spills with booms or diking and recover liquid where possible. Use non-sparking tools. Mop up spillage with absorbent material and place in tight waste container. Prevent product from entering drains, sewers, or water systems. Wash spill site with water and remove contaminated absorbent materials

SECTION 7. Storage and Handling Considerations

Special Considerations: This product is flammable and corrosive. Avoid contact with Copper, Zinc, Tin, Aluminum, Aluminum alloys. Avoid contact with incompatibles listed in Section 10.

Storage: Keep container tightly closed in a cool, dry area away from direct sunlight with good ventilation. Provide appropriate pressure release mechanisms for all storage vessels. Store this material only in stainless steel, appropriately lined steel, plastic (DOT Approved Drums), or fiberglass vessels. Check local fire codes.

Handling: Transfer only in a well ventilated area. Use appropriate personal protective equipment. (See Section 8) Provide explosion proof ventilation as necessary to control vapor concentrations. Make all

transfers between vessels with bonded grounding straps in place to avoid static discharge situations Use non-sparking tools.

SECTION 8. Exposure Controls, Personal Protection

Engineering Controls:	Provide explosion proof ventilation as necessary to control vapor concentrations.
Personal Protection:	
Eyes	Full face respirator with appropriate filter, goggles or face shield.
Body	Appropriate chemical apron or suit.
Hands	Chemical gloves.
Feet	Rubber boots.
Respiratory	Full face respirator (w/appropriate filters) or respirator with goggles.

SECTION 9. Physical and Chemical Properties

Physical State:	Clear, water thin liquid
Color:	Water white
Flash Point:	18°C/65°F
Odor:	Strong pungent ammonia odor
Boiling Point:	60°C
Freeze Point:	-72°C
Density:	7.60 lbs/gallon
Vapor Pressure:	60@20°C (Estimated)
Solubility:	Completely soluble in cold water
pH:	11-12 (10% Solution)
Volatile Organic Compounds:	72%

SECTION 10. Stability and Reactivity

Stability:	The product is stable
Incompatibility:	Avoid contact with acids, strong oxidizers, aldehydes, acrolein, dimethyl sulfate, halogens, isocyanates, silver nitrate,

propylene oxide, ethylene oxide, nitromethane, silver oxide, silver permanganate, oleum, and beta-propiolactone.

Conditions to Avoid: Heat, sunlight, incompatibles (see above), static discharge, and all sources of ignition and electrical equipment and fixtures which are not vapor-proof or grounded.

Materials to Avoid: Avoid contact with Copper, Zinc, Tin, Aluminum, Aluminum alloys. Contact with mercury, chlorine, bromine, iodine, calcium, silver oxide, or hypochlorite can form explosive compounds. Store or transport this material only in stainless steel, appropriately lined steel, plastic (DOT Approved Drums), or fiberglass vessels. Check local fire codes.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Burning may produce ammonia, nitrogen oxides, carbon monoxide and unidentified organic compounds.

SECTION 11. Toxicological Information

LD50 (rats oral) >70 ml/kg (Ammonia)

LD50 (rats oral) >5840 mg/kg (2-Propanol)

SECTION 12. Ecological Information

When this product is released into the air it is expected to evaporate quickly and readily degrade from photochemical reaction. When released in the soil the Ammonia is biodegradable, the 2-propanol is expected to evaporate quickly and is somewhat biodegradable. When this product is released into the water it is expected to evaporate quickly.

SECTION 13. Disposal Considerations

Waste Information: Waste must be disposed of in accordance with federal, state, and local environmental control. Consult your local or regional authorities.

SECTION 14. Transportation Information

DOT Classification:	This product is classified as a Flammable Corrosive and is regulated under the DOT Hazardous Materials Regulations (49 CFR 171-180) that govern the safe transport of hazardous goods.
DOT Proper Shipping Name:	UN1993 Flammable NOS
Placarding Required:	Flammable Liquid, Corrosive

SECTION 15. Regulatory Information

SARA Title III:	Listed (Ammonia & 2-Propanol)
TSCA:	Listed (Ammonia & 2-Propanol)
CERCLA:	1000 - Ammonia
RECRA:	Listed (2-Propanol)
State Regulations:	MA, NJ, & PA Right to Know – Listed (Ammonia)
California Prop 65:	Not Listed
WHMIS (Canada):	D1B Toxic Materials, E Corrosive Materials (Ammonia)

SECTION 16. Other Information

Other Information: N/A = Not Applicable
 N/E = None Established
 N/K = None Known

The submission of this MSDS may be required by law but this is not an assertion that the product is hazardous when used in accordance with label instructions, proper safety practices, and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by the company to be dependable and is accurate to the best of the company's knowledge. The information relates to the specific material designated herein and does not relate to the use in combination with any other material or process. The company assumes no responsibility for injury to the recipient or to a third party, for any damage to any property resulting from the misuse of the controlled product.