

SAFETY DATA SHEET

JACKHAMMER

SDS DATE: 02/28/2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: JACKHAMMER
DISTRIBUTOR: CHS Inc.
5500 Cenex Drive • Inver Grove Heights, MN 55077
651-355-6000
EMERGENCY CHEMTREC PHONE: US & Canada: 1-800-424-9300
CHEMICAL NAME: Proprietary mixture
CHEMICAL FAMILY:
CHEMICAL FORMULA: Mixture
PRODUCT USE: Agricultural adjuvant
SECTION 1 NOTES: None

SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:

Toxicity Categories

Acute toxicity (Oral)	Category 4
Skin corrosion/ irritation	Category 1B
Eye damage/ irritation	Category 1
Corrosive to metal	Category 1



Signal Word: **DANGER**

GHS HAZARDS

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

GHS PRECAUTIONS

P102 Keep out of reach of children.
P103 Read label before use.
P233 Keep container tightly closed.
P234 Keep only in original container.
P260 Do not breathe vapors or spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P301+310+330 IF SWALLOWED: Immediately call poison center, doctor or physician. Rinse Mouth.
P302+361+338 IF ON SKIN: (or hair): Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing cautiously.
P310 Immediately call a POISON CENTER, doctor or physician.
P361 Remove or take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P402 Store in a dry place.
P403+235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P406 Store in corrosive resistant HDPE, stainless steel or polypropylene containers with a resistant inner liner
P501 Dispose of contents/container to an approved waste disposal facility in accordance with all federal, state and local regulation

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% WT
Urea, sulfuric acid 1:1	57-13-6, 7664-93-9	20 - 30%
Trade Secret	Trade Secret	5 - 10%

NOTE: Product does NOT contain any pesticides or pest control agents.

SECTION 3 NOTES: These specific chemical identities and or exact percentage (concentration) of composition have been withheld as a trade secret.

CARCINOGENICITY
OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

SECTION 4: FIRST AID MEASURES

Have the product container with you when calling a poison control center or doctor, or going for treatment.

IF IN EYES: Immediately call a poison center, doctor or physician. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing.

IF ON SKIN OR CLOTHING: Remove or take off immediately all contaminated clothing. Rinse skin with water or shower. Call a poison center or physician to specify the appropriate source of emergency medical advice.

IF SWALLOWED: Immediately call a poison center or physician to specify the appropriate source of emergency medical advice. Unless advised otherwise by a poison control center or doctor, have person rinse mouth with water, if able. Do not give anything by mouth to an unconscious person.

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth to mouth if possible.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: None

SECTION 5: FIRE FIGHTING MEASURES

NFPA HAZARD CLASSIFICATION
HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: -

IN CASE OF FIRE: Water, carbon dioxide, dry chemical or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Use full turn-out gear and self-contained breathing apparatus. Dike and collect water using media appropriate for acidic water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Under fire conditions, oxides of carbon, sulfur and nitrogen.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Absorb spillage to prevent material damage. Surround and absorb all spills. Material should be collected and disposed in proper manner. Dike the area to prevent spill from spreading. Soak up spill with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material and place in a chemical waste container for disposal. Wear suitable protective equipment.

SECTION 6 NOTES: None

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SECTION 7: HANDLING AND STORAGE

HANDLING Keep out of reach of children. Read label before use. May rupture unvented containers. Store in ventilated containers only. Do not eat, drink or smoke when using this product. Do not breathe vapors or spray. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Wash contaminated clothing before reuse.

STORAGE: Store locked up. Will corrode incompatible materials. Extremely corrosive to copper, aluminum, zinc and mild steel. Polyethylene or polypropylene or other polymers are acceptable materials of construction. Store in a ventilated container only. Storage tanks should be vented and painted white or in light heat deflecting colors. Ensure that all pumps, valves, meters gaskets, etc are of compatible material. Store in a dry place. Store in a cool well ventilated area. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies. **STORE BETWEEN 40° AND 90° F.**

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values HMIS=C

VENTILATION: Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use OSHA or NIOSH approved respirator as appropriate.

RESPIRATORY PROTECTION: Not necessary unless ventilation is inadequate. Then use OSHA or NIOSH approved respirator, as appropriate.

EYE PROTECTION: Chemical goggles



SKIN PROTECTION: Acid impermeable gloves, long-sleeved shirts and pants, apron.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash and safety shower should be easily accessible. Dust mask for odor optional.

WORK HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

EXPOSURE GUIDELINES: If exposed, see section 4 for acute exposure first aid.

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear viscous	VAPOR DENSITY (AIR = 1):	Unknown
PHYSICAL STATE:	Liquid		F: Unknown
ODOR:	None		C: Unknown
ODOR THRESHOLD:	Not known		
pH AS SUPPLIED:	<1	RELATIVE DENSITY:	9.538 lb/gal to 9.738 lb/gal
pH (Other):	1 – 2 at 2%		
INITIAL BOILING POINT:	F: Unknown	SPECIFIC GRAVITY	1.145 to 1.169
	C: Unknown		
BOILING POINT RANGE:	F: Unknown	SOLUBILITY IN WATER:	Soluble
	C: Unknown		
MELTING POINT:	F: Unknown	PARTITION COEFFICIENT: (n-octanol/water):	Unknown
	C: Unknown		
FLASH POINT:	F: >200	AUTO-IGNITION TEMPERATURE:	Unknown
	C: >93		
METHOD USED:	PMCC	DECOMPOSITION TEMPERATURE:	Unknown
FLAMMABILITY (solid, gas):	Can burn		
FLAMMABLE LIMITS IN AIR, UPPER:	Unknown	VISCOSITY:	@ Not determined
(% BY VOLUME)	LOWER: Unknown		F: Unknown
	F: Unknown		C: Unknown
	C: Unknown		

SECTION 9 NOTES: VALUES ARE NOT PRODUCT SPECIFICATIONS.

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable Unstable

CONDITIONS TO AVOID (STABILITY): This material may vigorously decompose releasing carbon dioxide gas if heated above 230-300°F.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with oxidizers. May be extremely hazardous in contact with chlorates. This material is corrosive to metal. Avoid contact with nitrates, hypochlorites (e.g., chlorine bleach), sulfides, or cyanides which will generate toxic gases. Contact with alkaline materials (e.g., aqua ammonia and caustics) will generate heat.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under fire conditions, oxides of carbon, nitrogen and sulfur. Small amounts of carbon dioxide will be released under normal conditions. Vented caps should be used on all containers and vessels.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

MIXTURE TOXICITY Not available

COMPONENT TOXICITY Not available

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

ECOTOXICITY: Not available

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. Dispose of contents in container to an approved waste disposal facility in accordance with all federal, state and local regulations.

CONTAINER DISPOSAL: Triple rinse (or equivalent) adding rinse water to application tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by local regulations.

RCRA HAZARD CLASS: None

SECTION 13 NOTES: None

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Proper shipping name: Corrosive Liquid, Acidic, Organic N.O.S. (contains monocarbamide dihydrogen sulfate)

DOT Shipping Description: Corrosive Liquid, Acidic, Organic N.O.S. (contains monocarbamide dihydrogen sulfate)
Identification Number: UN3265
Proper Shipping Name: Corrosive Liquid, Acidic, Organic N.O.S. (contains monocarbamide dihydrogen sulfate)
Hazard Class: 8
Packing Group: II
Label Required: CORROSIVE

If shipping limited quantity: 49 CFR 173.15(b)(1) inner container not over 1.0 L (0.3 gallons)

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60) Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Mixture not listed or excluded from listing.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not Regulated

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Not Regulated

311/312 HAZARD CATEGORIES: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

313 REPORTABLE INGREDIENTS:

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the de minimis concentration level.

Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ
Residual ethylene oxide (typical)	75-21-8	<0.001	Below reportable concentrations	

WARNING! This product contains a detectable amount of ethylene oxide, which is known to the State of California to cause cancer and/or reproductive toxicity.

Ethoxylated products may contain residual amounts of ethylene oxide (EO) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with OSHA ethylene oxide standard (29) CFR 1910.1047).

INTERNATIONAL REGULATIONS: None

SECTION 15 NOTES: None

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SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

DISCLAIMER:

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose.

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