

SAFETY DATA SHEET

YARDAGE

SDS DATE: 01/16/2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: YARDAGE
COMPANY NAME: EXACTO INC
ADDRESS: 200 Old Factory Rd Sharon, WI 53585
PHONE: (262)456-5200
EMERGENCY CHEMTREC PHONE: US & Canada: 1-800-424-9300

CHEMICAL NAME: Proprietary mixture
CHEMICAL FAMILY: Acidifying surfactant
CHEMICAL FORMULA: Mixture

PRODUCT USE: Surfactant adjuvant

SECTION 1 NOTES: None

SECTION 2: HAZARDS IDENTIFIED

GHS Ratings:

Flammable liquid



Toxicity Categories

Eye corrosion / irritation
Category 4

Category 1

Signal Word: DANGER

GHS HAZARDS

H227 Combustible liquid.
H318 Causes serious eye damage.

GHS PRECAUTIONS

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, sparks, open flames or hot surfaces – No smoking.
P233 Keep container tightly closed.
P234 Keep only in original container.
P261 Avoid breathing 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.
P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
P302+352 IF ON SKIN: Wash with of plenty of soap and water.
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.
P307+378 In case of fire: Use Foam, Dry Chemical, CO2, Water Spray to extinguish.
P403+235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents in container to an approved waste disposal facility in accordance with all local, regional, national and international regulations.

SECTION 3: INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Propionic Acid	79-09-4	30 – 50%
Lecithin	8002-43-5	10 - 20%
Fatty Acid	61790-12-3	5 - 10%
Proprietary	Proprietary	1 - 5%
Proprietary	Proprietary	30 - 40%

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

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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, after the first 5 minutes, then continue cautiously rinsing eye.

IF ON SKIN OR CLOTHING: Take off contaminated clothing and wash it before reuse. Wash skin with plenty of soap and water for several minutes.

IF SWALLOWED: 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: 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. Call a poison center, doctor or physician if you feel unwell.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: None

SECTION 5: FIRE FIGHTING MEASURES

NFPA HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 0 OTHER: -

IN CASE OF FIRE: In case of fire: Use Foam, Dry Chemical, CO2, Water Spray to extinguish. Keep away from heat, sparks, open flames or hot surfaces- NO SMOKING.

SPECIAL FIRE FIGHTING PROCEDURES: Use alcohol-type or universal-type foams on larger fires. Smaller fires should be extinguished with carbon dioxide or dry chemical. Do not use water or foam directly on the fire. Use self-contained breathing apparatus with fighting any fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Containers may explode in heat of fire.

HAZARDOUS DECOMPOSITION PRODUCTS: During combustion, oxides of carbon.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Surround and absorb all spills to prevent material damage. Material should be collected and disposed in proper manner. Dike the area to prevent spill from spreading. Spilled material should be absorbed onto an inert material and scooped up. Soak up spill with a suitable absorbent. Sweep up absorbed material and place in a chemical waste container for disposal. Wear suitable protective equipment.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING Keep out of reach of children. Read label before use. Keep away from heat, sparks, open flames or hot surfaces – No smoking. Keep container tightly closed. Keep only in original container. Avoid breathing vapors or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection.

STORAGE: Store in a cool well-ventilated place. 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. For optimal storage, store between 40° and 90° F.

SECTION 7 NOTES: None

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

	OSHA		ACGIH		NIOSH	
	PEL	STEL	PEL	STEL	PEL	STEL
Propionic Acid 79-09-4	10 ppm /8hr 30 mg/m ³	15 ppm / 15min				

HMIS=E

VENTILATION: Normal room ventilation (mechanical) or outdoor use should be satisfactory.

RESPIRATORY PROTECTION: Wear a NIOSH/OSHA approved respirator, approved for use with propionic acid, if necessary.

EYE PROTECTION: Safety glasses with side shields



SKIN PROTECTION: Chemical gloves, long-sleeved shirts and pants.



OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash and safety shower should be easily accessible. Dust Mask.



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: Amber to dark brown

ODOR: Strong, vinegar-like
ORDER THRESHOLD: Not known

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Not applicable
pH (Other): Acidic

INITIAL BOILING POINT: F: Unknown
C: Unknown

BOILING POINT RANGE: F: Unknown
C: Unknown

MELTING POINT: F: Unknown
C: Unknown

FREEZING POINT: F: Unknown
C: Unknown

FLASH POINT: F: 147
C: 64

METHOD USED: PMCC

FLAMMABILITY (solid, gas): Combustible

FLAMMABLE LIMITS IN AIR, UPPER: Unknown
(% BY VOLUME) **LOWER:** Unknown

VAPOR PRESSURE (mmHg): @ Unknown
F: Unknown
C: Unknown

VAPOR DENSITY (AIR = 1): @ Unknown
F: Unknown
C: Unknown

RELATIVE DENSITY: 0.989 to 1.027

EVAPORATION RATE: Unknown
BASIS (butyl acetate=1):

SOLUBILITY IN WATER: Dispersible

PARTITION COEFFICIENT: (n-octanol/water): Unknown

AUTO-IGNITION TEMPERATURE: Unknown

DECOMPOSITION TEMPERATURE: Unknown

VISCOSITY: @ Unknown
F: Unknown
C: Unknown

CORROSIVITY: Not corrosive to metal by ASTM G31-72

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): None known

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents. Can react with metals, strong bases and amines.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: During combustion, oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: MIXTURE TOXICITY

Dermal Toxicity: >5050mg/kg
Oral Toxicity: >5000mg/kg
Acute eye Irritation (Rabbit) score of 65.0 out of 110 effect persisted through 21 day
Acute Dermal irritation (Rabbit) 0.8 out of 8.0 based on a 72 hour observation

COMPONENT TOXICITY

Propionic Acid
Lecithin
Proprietary
Fatty acids
Proprietary
- Oral Toxicity: 2,001.00 mg/kg (Rat)

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

NMFC Proper Shipping Name: Adhesive, Adjuvants, Spreaders or Stickers, Sprayable Product, Dry or Liquid

DOT Shipping Description:

PROPER SHIPPING NAME: Combustible Liquid, N.O.S. (Propionic Acid)
HAZARD CLASS: 3
ID NUMBER: NA1993
PACKING GROUP: III
LABEL STATEMENT:
EXCEPTION: 49CFR 173.150(f)(2) not over 450 L (119 gallons)

NOT REGULATED AS CORROSIVE WHEN TRANSPORTED BY MOTOR VEHICLE OR RAILCAR IN PACKAGING THAT WILL NOT REACT WITH OR BE DEGRADED BY THIS MATERIAL SUCH AS HDPE OR STAINLESS STEEL - 49 CFR 173.154 (d).

Average rate of corrosion for STEEL Coupon test 0.4316 mm/yr.
Average rate of corrosion for ALUMINUM ALLOY Coupon test .0231 mm/yr.

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):

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

INGREDIENT	CAS NO.	% WT	SARA 313 REPORTABLE	OSHA		ACGIH		
				TWA	STEL	Ceiling	TWA	STEL
Propionic Acid	79-09-04	35	No	10 ppm / 8 hr	15 ppm / 15 min			
Ethylene Oxide	75-21-8	<1 ppm	Not at levels present	1 ppm				

STATE REGULATIONS: 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

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

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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. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.