

TMR Guard

1. Product and Company Identification

Product Name	TMR Guard
Synonyms	Buffered Acid Blend
MSDS Number	D20630
Product Use	Feed preservative
Company Undertaking Identification	JBS United 4310 State Road 38 West Sheridan, IN 46069
Telephone	800-382-9909 CHEMTREC – 800.424.9300

NFPA diamond and HMIS ratings for this product may be found in section 16 of this Safety Data Sheet.

2. Hazards Identification

Form	Liquid, slightly viscous
Color	Clear, dark blue
Odor	Sharp, pungent
GHS Classification	Acute toxicity, Oral (Category 5) Skin corrosion (Category 2) Serious eye damage/eye irritation (Category 2A)

Pictogram



Signal Word: Warning

Hazard Statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary Statement(s)

P264	Wash thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Potential Acute Health Effects

Inhalation	Mists or vapors can cause irritation of the respiratory system on prolonged exposure.
Ingestion	May be harmful if swallowed. May cause irritation of the mouth, esophagus, and mucous membranes.
Skin	Causes skin irritation, especially on repeated or prolonged contact.
Eyes	May cause severe eye irritation on prolonged contact.

See section 11 for more detailed information on health effects and symptoms

3. Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>WT %</u>
Propionic Acid	79-09-4	50
Acetic Acid	64-19-7	15
Benzoic Acid	65-85-0	5
Ammonium Hydroxide	1336-21-6	to pH 5.50
Water	7732-18-5	Balance

4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms develop.
Skin Contact	Wash thoroughly with soap and plenty of water. Get medical attention if symptoms develop.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Give conscious victim large quantities of water. Induce vomiting. Get immediate medical attention.
Protection of First Aid Personnel	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If it is suspected that dust, vapor, mist, or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

5. Fire-fighting Measures

Flammability of the Product	Non-flammable
Flash Point	> 200 °F (93 °C)
Auto Ignition Temperature	Not determined
<u>Extinguishing Media</u>	
Suitable	Water spray, dry chemical, carbon dioxide, or foam.
Not Suitable	Not available
Special Fire-fighting Procedures & Hazards	None
Unusual Fire & Explosion Hazards	None known

6. Accidental Release Measures

Personal Precautions	Wear appropriate protective equipment and clothing during clean-up.
Environmental Precautions	Contain to prevent loss to the environment.
Spill	Collect excess material. Flush residual material to a sanitary sewer.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation.
Storage	Keep containers tightly closed. Store at ambient temperatures. Freezes at about -30 °F (-34 °C). Freezing does not deteriorate the product.

8. Exposure Controls/Personal Protection

<u>Ingredient Name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Propionic Acid	10 ppm (TWA)	10 ppm (TWA)
Acetic Acid	10 ppm (TWA)	10 ppm (TWA)
Benzoic Acid	Not applicable	Not applicable
Ammonium Hydroxide	Not applicable	Not applicable
Engineering Measures	Use mechanical ventilation such as dilution and local exhaust. Use a corrosion-resistant ventilation system and exhaust directly to the outside. Supply ample air replacement.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
Respiratory	If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134).	
Eyes and Face	Wear safety glasses with side shields (or goggles) and a face shield.	
Skin	Wear chemically impervious gloves, made of any waterproof material, boots, and coveralls to avoid skin contact.	

9. Physical and Chemical Properties

Appearance	Blue, slightly viscous liquid
Odor	Sharp, pungent
pH	5.4 to 5.6
Water Solubility	Complete
Vapor Density (air = 1)	Not determined
Evaporation rate (butyl acetate = 1)	Not determined
Boiling Point	> 212 °F (100 °C)
Freezing Point	- 30 °F (-34 °C)
Specific Gravity (H ₂ O = 1 @ 70 °F)	1.080
Vapor Pressure	Not determined
Volatile Organic (VOC) Content	None

10. Stability and Reactivity

Stable: X	Unstable:	Hazardous Polymerization:	Occurs:	Does Not Occur: X
Conditions to Avoid	None known			
Materials to Avoid	Oxidizing materials			
Decomposition Products	Carbon monoxide, carbon dioxide			

11. Toxicological Information

Eye	May cause severe eye irritation on prolonged contact.
Propionic Acid	Serious eye damage/eye irritation – rabbit – severe eye irritation
Acetic Acid	Serious eye damage/eye irritation – rabbit – corrosive to eyes
Benzoic Acid	Serious eye damage/eye irritation – rabbit – risk of serious damage to eyes
Ammonium Hydroxide	Serious eye damage/eye irritation – rabbit – severe eye irritation
Dermal	Causes skin irritation, especially on repeated or prolonged contact.
Propionic Acid	Acute Toxicity - no data available Skin corrosion/irritation - rabbit – severe skin irritation
Acetic Acid	Acute Toxicity – LD50 – rabbit – 1112 mg/kg Skin corrosion/irritation - may cause sensitization by skin contact
Benzoic Acid	Acute Toxicity – LD50 – rabbit – 10,000 mg/kg Skin corrosion/irritation – rabbit – mild skin irritation – 24 hr. Draize Test
Ammonium Hydroxide	Acute Toxicity - no data available Skin corrosion/irritation – no data available
Inhalation	Mists or vapors can cause irritation of the respiratory system on prolonged exposure.
Propionic Acid	Acute Toxicity - no data available
Acetic Acid	Acute Toxicity – LC50 – rat – 11.4 mg/l – 4 hr.
Benzoic Acid	Acute Toxicity – LC50 – rat - > 12.2 mg/l – 4 hr.
Ammonium Hydroxide	Acute Toxicity - no data available
Oral	May be harmful if swallowed. May cause irritation of the mouth, esophagus, and mucous membranes.
Propionic Acid	Acute Toxicity – LD50 – rat – 3500-4200 mg/kg
Acetic Acid	Acute Toxicity – LD50 – rat – 3310 mg/kg
Benzoic Acid	Acute Toxicity – LD50 – rat - > 2000 mg/kg
Ammonium Hydroxide	Acute Toxicity – LD50 – rat – 350 mg/kg
Chronic Effects	
Carcinogenicity	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC, NTP, or ACGIH.

12. Ecological Information

Biodegradability	No data available
Ecotoxicity	No data available

13. Disposal Considerations

Waste Disposal	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
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RCRA

No EPA waste codes are applicable for this product's components.

14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

US DOT 49 CFR 172.101	Non-bulk Shipments (Drums/Totes)	Bulk Shipments (Tank Trucks/Rail Cars)
Proper Shipping Name	Not applicable	Same
Hazard Class	Not applicable	Same
Identification Number	Not applicable	Same
Packing Group	Not applicable	Same
Reportable Quantities	Not applicable	Same
Placards/Labels	Not applicable	Same

15. Regulatory Information

CERCLA / SARA Emergency Reporting	A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws. Propionic Acid – CAS# 79-09-4 (RQ 5000 lbs.) Ammonium Hydroxide – CAS# 1336-21-6 (RQ 1000 lbs.)
SARA Title III Section 313	The following components are subject to reporting levels established by SARA Title III, Section 313: Ammonium Hydroxide (CAS# 1336-21-6) listed with as a Section 313 reportable substance. End product has no reporting requirement as Ammonium Hydroxide no longer exists as it is chemically altered during manufacture.
Clean Water Act (CWA) Section 311	The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. None
TSCA – Toxic Substances Control Act	All components of this product are listed on the Toxic Substances Control Act Inventory or are excluded from listing requirements.
RCRA – Resource Conservation and Recovery Act	The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.
State Regulations	
Massachusetts	RTK Substances: The following components are listed: Propionic Acid (CAS# 79-09-4), Acetic Acid (CAS# 64-19-7), Benzoic Acid (CAS# 65-85-0), Ammonium Hydroxide (CAS# 1336-21-6)
New Jersey	RTK Substances: The following components are listed: Propionic Acid (CAS# 9-09-4), Acetic Acid (CAS# 64-19-7), Benzoic Acid (CAS# 65-85-0), Ammonium Hydroxide (CAS# 1336-21-6)
Pennsylvania	RTK Substances: The following components are listed: Propionic Acid (CAS# 79-09-4), Acetic Acid (CAS# 64-19-7), Benzoic Acid (CAS# 65-85-0), Ammonium Hydroxide (CAS# 1336-21-6)

California

Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Date of Issue 8/16/2013 | 4/21/2015-updated header information and disclaimer information, section 16 | 4/19/2017-updated company name, section 1, updated GHS classification and associated statements, section 2, updated ingredients list, sections 3, 8, 11 (ST)

NFPA



HMIS

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	

Caution: NFPA and HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. The customer is responsible for determining the PPE code for this material.

Notice to Reader

The information contained on this SDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Disclaimers: Please be informed that JBS United and its manufacturing partners manufacture JBS United products to pass all internal specifications. JBS United does not guarantee results. Customers or resellers are expected and must use JBS United products in safe and effective manners and employ well-trained personnel to use and handle the products. JBS United and its manufacturing partners assume no responsibilities, written or implied, for any damages resulting from the use of JBS United products. The buyer, by purchasing/accepting JBS United products, agrees to indemnify JBS United and its manufacturing partners.