

NIACET SODIUM STEAROYL LACTYLATE 12/2023 **PROCESS** FLOW DIAGRAM **Raw Material** Raw Storage Material Storage SODIUM HYDROXIDE STEARIC ACID & LACTIC ACID Nitrogen Inert step1 step1 **FEEDER FEEDER** Strainer strainer Rework if needed -SODIUM STEAROYL LACTYLATE REACTOR Step 2 Nitrogen LIQUID SSL STORAGE TANK Step 3 Filter CO₂ SODIUM STEAROYL LACTYLATE FLAKER/M ILL Step4 SCREENER/ MAGNET/ PRODUCT HOPPER Step5 **PACKAGING UNIT** Step6 **Check Weighing and Metal Detection** Metal Step7 Detection PC #1 PC #2 Finished Goods Storage, Dispatch/ or Rework Step 8 Lab Testing

Palletizing, Stretch Wrap, Batch Identification

Step 9



As a producer: These are our controls within the HACCP framework:

BIOLOGICAL HAZARDS:

Sodium Stearoyl Lactylate is Antimicrobial by nature and not subject to bacterial attack

PHYSICAL HAZARDS:

Materials of Construction/ Visual Inspection / Sifting of Product / Sealing of Product / Metal Detection PC1

CHEMICAL HAZARDS:

Raw Material control /Process Intermediate control/ Weight and Volume Control /Finished Goods Control PC2

HAZARD ANALYSIS AND RISK ASSESSMENT STATEMENT

Niacet A Kerry® Company metal organic acid salt products including Sodium Stearoyl Lactylate are anti-microbial compounds not subject to attack. They are produced from synthetic raw materials that are received via bulk railcar or tank truck. Niacet A Kerry® Company has no allergens in the process, or on site.

Hazard Analysis concludes health risks may be attributed to contamination from tramp metal associated with stainless steel production equipment. The risk of injury due to metal in the product is considered to be low. Food Chemicals Codex (FCC) guidelines also require Sodium Stearoyl Lactylate FCC to meet specification. The risk of injury due to off spec product is considered to be low. Our preventative control points include metal detection of each box of finished product, and specification testing of each lot. Neither of these control points is considered to be critical due to the minor ingredient use of this product.