



# SAFETY DATA SHEET


Version: 2.0  
Date: 06.03.2021  
Supersedes: 1.0

## Zinpro IsoFerm™

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier:</b> Product Name	Zinpro IsoFerm™ Salts of volatile fatty acids livestock nutritional feed ingredient.
<b>1.2 Recommended use of the chemical and restrictions:</b> Identified Use(s) Uses Advised Against	A nutritional animal feed ingredient. For use only as an animal feed additive.
<b>1.3 Supplier's details</b> Company Identification	Zinpro Corporation 10400 Viking Drive, Suite 240 Eden Prairie, MN 55344-7265
Telephone	952-944-2736
E-Mail (competent person)	zinpro@zinpro.com
<b>1.4 Emergency Phone No. (Spill, Leak, Fire, Exposure, or Accident):</b> Languages spoken	<b>CHEMTREC</b> 1-800-424-9300 (US and Canada) 1-703-527-3887 (collect calls accepted) <b>Reference CCN 725293</b> 24 hours, English spoken.

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Hazard Classification:</b>	Skin corrosion/irritation category 3 Serious eye damage/irritation category 2B STOT single exposure category 3
<b>2.2 Labelling</b>	<b>Symbols</b> 
<b>Signal word</b>	<b>Warning</b>
<b>Hazard statements:</b>	Causes mild skin irritation Causes eye irritation May cause respiratory irritation
<b>Precautionary Statements:</b>	Avoid breathing dust Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Mixtures** Substances in preparations / mixtures

<u>Ingredient</u>	<u>CAS No</u>	<u>% Wt</u>	<u>EPCRA 313</u>
Salts of volatile fatty acids	None	60	No

**SECTION 4: FIRST AID MEASURES****Description of first aid measures. Avoid contact with all workplace chemicals.**

<b>4.1 SKIN:</b>	After contact with skin, wash immediately with plenty of soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.
<b>4.2 EYES:</b>	Wash eyes with copious amounts of water. Consult a physician
<b>4.3 INGESTION:</b>	Wash mouth and throat repeatedly without swallowing. Do not induce vomiting without medical advice. Consult a physician if you feel unwell.
<b>4.4 INHALATION:</b>	Move to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing has stopped, provide artificial respiration.

**SECTION 5: FIRE-FIGHTING MEASURES**

<b>5.1 SUITABLE EXTINGUISHING MEDIA:</b>	Dry chemical, CO <sub>2</sub> , water spray, or foam as appropriate for surrounding materials.
<b>5.2 COMBUSTION PRODUCTS:</b>	Burning may produce irritant fumes such as metal oxides, or toxic gases such as carbon monoxide.
<b>5.3 FIRE FIGHTING PROCEDURES:</b>	Self-contained breathing apparatus in enclosed areas. Do not inhale combustion gases. Do not flush into storm drains.
<b>5.4 UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	All granular materials have the potential to create a fire hazard if dust is generated during handling.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>6.1 PERSONAL PRECAUTIONS:</b>	Use personal protective equipment including gloves and safety glasses or face shield when handling this product. When handling, do not eat, drink, or smoke.
<b>6.2 ENVIRONMENTAL PRECAUTIONS:</b>	Prevent product from entering drains.
<b>6.3 METHODS FOR CLEANING:</b>	Carefully sweep up and recover uncontaminated material for re-use. Scoop remaining waste into suitable, labeled container for disposal.

**SECTION 7: HANDLING AND STORAGE**

<b>7.1 HANDLING AND STORAGE:</b>	Use only in an area provided with adequate ventilation. Use personal protective equipment when handling this product. Remove and wash contaminated clothing before re-use. Store in tightly closed container at room temperature in a dry location.
<b>7.2 OTHER PRECAUTIONS:</b>	ALWAYS minimize the generation of dust when handling. This product contains metal compounds. Do not mix with acids or oxidizers except under controlled conditions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Potential workplace routes of exposure include inadvertent, incidental oral ingestion and inadvertent, incidental dermal contact. Inhalation is not a significant route of exposure.

**8.1 Occupational Exposure Limits**

Substance	Permissible Exposure Level
Nuisance dust (total)	15.0 mg/m <sup>3</sup> (TWA)
Nuisance dust (respirable fraction)	5.0 mg/m <sup>3</sup> (TWA)

- 8.1.1 ENGINEERING CONTROLS:** Use only in a well-ventilated area to prevent exposure from exceeding regulatory levels.
- 8.1.2 RESPIRATORY PROTECTION:** Protection is needed only when dust is formed. Use a mask suitable for dust. Proper handling to minimize dust is required. Do not smoke when handling this product.
- 8.1.3 EYE PROTECTION:** Goggles or safety glasses with side-shields.
- 8.1.4 SKIN PROTECTION:** Gloves
- 8.1.5 WORK HYGIENIC PRACTICES:** Do not eat or drink when handling this product.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:**

<b>APPEARANCE:</b>	Light grey granular
<b>ODOR:</b>	Mild
<b>PHYSICAL STATE:</b>	Pellet
<b>pH:</b>	N/A
<b>MELTING POINT:</b>	>200 °C
<b>DENSITY:</b>	36 - 38 lb./ft <sup>3</sup> / 580 - 600 kg/m <sup>3</sup>
<b>SOLUBILITY IN WATER:</b>	Active product is water soluble
<b>PERCENT SOLIDS BY WEIGHT:</b>	100%
<b>PERCENT VOLATILE:</b>	N/A
<b>VOLATILE ORGANIC CMPDS (VOC):</b>	N/A
<b>FLAMMABLE LIMITS IN AIR UPPER:</b>	N/A
<b>(% BY VOLUME) LOWER:</b>	N/A
<b>FLASH POINT:</b>	No data available
<b>AUTOIGNITION TEMPERATURE:</b>	No data available

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1 STABILITY:** This product is stable under recommended storage conditions and in normal use.
- 10.2 CONDITIONS TO AVOID (STABILITY):** Avoid generation of dust while handling. As with all dusts, finely divided airborne material may explode or burn when exposed to a source of ignition.
- 10.3 INCOMPATIBILITY (MATERIALS TO AVOID):** Organic compounds are incompatible with strong acids and strong oxidizers. Potentially violent reactions may occur on mixing with these materials.
- 10.4 HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Thermal decomposition may release irritating gases, such as carbon oxides, or toxic gases or vapors.
- 10.5 HAZARDOUS POLYMERIZATION:** None

**SECTION 11: TOXICOLOGICAL INFORMATION**

Essential fatty acids are not a health hazard at low concentrations. This product contains one or more nutritionally significant fatty acids. The ingredients of this mixture have been evaluated in accordance with the Health Hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals. The following information pertains to the blend of materials as presented.

**11.1 Information on toxicological effects****Acute Toxicity: (Not Classified):**

Acute toxicity estimate (ATE) for this mixture: LD<sub>50</sub> (oral) = 5948\* mg/kg  
\*Estimate from 100% acid form actual level may be much higher and less toxic

**Sub-Acute/Chronic Effects associated with mineral components:**

<b>Skin Sensitizer:</b>	Not Classified.
<b>Carcinogen:</b>	Not Classified.
<b>Mutagen:</b>	Not Classified.
<b>Skin Irritant:</b>	Category 3
<b>Eye Irritant:</b>	Category 2B
<b>Reproductive Toxicity:</b>	STOT category 3
<b>Target Organ:</b>	Not Classified.
<b>Aspiration toxicity:</b>	Not Classified.
<b>SYMPTOMS OF OVEREXPOSURE to trace minerals:</b>	Irritation or burning of nose, throat, or skin; stomach cramps, nausea, vomiting, diarrhea, behavior changes, deterioration of motor skills.

**11.2 MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE:**

Asthma or other respiratory problems, existing dermatitis

**SECTION 12: ECOLOGICAL INFORMATION**

There is no data regarding the actual eco-toxicity of this blended product, which is formulated and approved for ingestion by livestock.

**12.1 Ecotoxicity:**

<b>Acute Hazards: Fish and aquatic invertebrates:</b>	No data available
<b>Chronic hazards: Fish, aquatic invertebrates, and toxicity to aquatic plants:</b>	No data available
<b>Mobile Persistence and biodegradability:</b>	No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

This product is not a hazardous waste as defined by 40 CFR 260 when disposed. As with all waste materials, it is recommended that residuals of this product and the container be disposed in a responsible manner at a licensed landfill or recycling center.

**SECTION 14: TRANSPORT INFORMATION**

This product is not listed or categorized as a hazardous material for transport in the U.S. at 49 CFR 172.101.

**SECTION 15: REGULATORY INFORMATION**

Fatty acid salts are not specifically regulated under any of the listed programs.

**15.1. U.S. FEDERAL REGULATIONS**

<b>15.1.1 TSCA (TOXIC SUBSTANCE CONTROL ACT) listed:</b>	None present or none present in regulated quantities.
<b>15.1.2 CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):</b>	None present or none present in regulated quantities.
<b>15.1.3 EPCRA (EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT):</b>	
<b>302 EXTREMELY HAZARDOUS SUBSTANCE TPQ:</b>	Not EHS
<b>304 EXTREMELY HAZARDOUS SUBSTANCE RQ:</b>	Not EHS
<b>311/312 HAZARD CATEGORIES:</b>	<b>Acute: No Chronic: No Fire: No Pressure: No Reactivity: No</b>
<b>313 REPORTABLE INGREDIENTS:</b>	No
<b>15.1.4 CLEAN AIR ACT AMENDMENTS Section 112:</b>	Not listed as Hazardous Air Pollutant in Section 112 of the CAAA.
<b>15.2 STATE REGULATIONS:</b>	Refer to individual state agency for information.
<b>15.3 INTERNATIONAL REGULATIONS:</b>	Refer to European Chemical Substance Information System (ESIS)

**SECTION 16: OTHER INFORMATION****16.2 NFPA HAZARD CLASSIFICATION**

HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 0

**16.3 HMIS HAZARD CLASSIFICATION:**

HEALTH: 1      FLAMMABILITY: 1      PHYSICAL: 0      PROTECTION: 0

**16.4 PREPARATION INFORMATION:**

Centers for Disease Control (CDC) Agency for Toxic Substances and Disease Registry (ATSDR)  
National Fire Protection Association (NFPA)  
Hazardous Materials Information System (HMIS)  
U.S. EPA Chemical Emergency Preparedness and Prevention Office (CEPPO) List of Lists  
U.S. EPA Substance Registry Service (TSCA)  
U.S. Dept of Labor Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1000  
U.S. Dept of Transportation (DOT) 49 CFR 172.101

**DISCLAIMER:** The information expressed in this document regarding this product is believed to be reliable. However, no guarantee or warranty of any kind, express or implied, concerning the use of this product is intended.