

# SAFETY DATA SHEET

Version number: 1.0 Date: 15 February 2021 Supersedes: Not applicable

# Copro<sup>®</sup>25

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Copro<sup>®</sup> 25

Cobalt glucoheptonate - Livestock nutritional feed ingredient

Zinpro Corporation 10400 Viking Drive, Suite 240 Eden Prairie, MN 55344-7265

GENERAL INFO PHONE: ZINPRO 952-944-2736

EMERGENCY PHONE (Spill, Leak, Fire, Exposure, or Accident): CHEMTREC

1-800-424-9300 (US and Canada) 1 703-527-3887 (collect calls accepted) Reference CCN 725293

# SECTION 2: HAZARD(S) IDENTIFICATION

Symbol

Classification: Skin Sensitizer, Category 1	(cobalt concentration >0.1%)
Carcinogen, Category 2	(cobalt concentration >1%)
Mutagen, Category 2	(cobalt concentration >1%)

Labeling:

Health Hazard



0		
Hazard		

May cause an allergic skin reaction
Suspected of causing cancer
Suspected of causing genetic defects

Precautionary

Statements	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Wear protective gloves and eye/face protection.
	Avoid breathing dust.
	If on skin, wash with plenty of water.
	If exposed or concerned, get medical advice
	If skin irritation or rash occurs, get medical attention.
	Take off contaminated clothing, and wash it before re-use.
	Contaminated work clothing should remain at the workplace.
	Dispose of contents/container to a licensed landfill or recycling center.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS					
INGREDIENT	CAS NO.	% WT	EPCRA 313		
Cobalt glucoheptonate	None	2.5% (as Co)	Yes		

# SECTION 4: FIRST AID MEASURES

# Avoid contact with all workplace chemicals.

- **EYES:** Wash eyes with copious amounts of water. Consult a physician.
- **SKIN:** After contact with skin, wash immediately with plenty of water.
- **INGESTION:** Wash mouth and throat repeatedly without swallowing. Do not induce vomiting without medical advice. Consult a physician if you feel unwell.
- **INHALATION:** Move to fresh air. Provide oxygen or artificial respiration if needed. Consult a physician without delay.

SECTION 5: FIRE-FIGHTING MEASUR	RES			
SUITABLE EXTINGUISHING MEDIA:		Dry chemical, CO <sub>2</sub> , water spray, or foam as appropriate for surrounding materials.		
COMBUSTION PRODUCTS:		Burning may produce irritant fumes such as metal oxides, or toxic gases such as carbon monoxide.		
FIRE FIGHTING PROCEDURES:		Self-contained breathing apparatus in enclosed areas. Do not inhale combustion gases. Do not flush into storm drains.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:		All granular materials have the potential to create a fire hazard if dust is generated during handling.		
SECTION 6: ACCIDENTAL RELEASE	MEASUR	ES		
PERSONAL PRECAUTIONS:	Use personal protective equipment including gloves and safety glasses or a face shield when handling this product. When handling, do not eat, drink, or smoke.			
ENVIRONMENTAL PRECAUTIONS: Prevent product from entering drains.		product from entering drains.		
,		sweep up and recover uncontaminated material for re-use. Scoop remaining waste into abeled container for disposal.		

# SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE	<ul> <li>GE: Use only in an area provided with adequate ventilation.</li> <li>Use personal protective equipment when handling this product.</li> <li>Remove and wash contaminated clothing before re-use.</li> <li>Store in tightly closed container at room temperature in a dry location.</li> </ul>		
OTHER PRECAUTIONS:	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.

#### **EXPOSURE GUIDELINES:**

#### U.S. Occupational Safety and Health Administration

Substance	Permissible Exposure Level				
Cobalt glucoheptonate Cobalt dust	None listed 0.1 mg/m³ (TWA)				
ENGINEERING CONTROLS:	Use only in a well-ventilated area to prevent exposure from exceeding regulatory levels.				
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.				

SAFETY DATA SHEET				SDS DATE: 02/15/2021
EYE PROTECTION: Goggles or safety glasses with				505 DATE. 02/15/2021
SKIN PROTECTION: Gloves				
WORK HYGIENIC PRACTICES:	Do not ea	at or drink when handling	this product.	
SECTION 9: PHYSICAL AND C	HEMICAL PROP	PERTIES		
APPEARANCE: Bro	own, granular		PERCENT SOLIDS BY WEIGHT:	<b>1</b> 00%
ODOR: Sw	veet, organic		PERCENT VOLATILE:	0%
PHYSICAL STATE:Solid			VOLATILE ORGANIC CMPDS (VO	<b>C)</b> : 0%
pH: NA	A		FLAMMABLE LIMITS IN AIR UPP (% BY VOLUME) LOWE	ER: NA ER: NA
MELTING POINT: >2	00 °C		FLASH POINT:	>200 °C
<b>SPECIFIC GRAVITY (H2O = 1):</b> 0.480 at 20°C			AUTOIGNITION TEMPERATURE:	>200 °C
	Active product is water soluble; Carrier is insoluble			
SECTION 10: STABILITY AND F	REACTIVITY			
STABILITY: This product	is stable under r	ecommended storage co	nditions and in normal use.	
			t while handling. As with all dusts, par borne material may explode or burn v	
			mpounds are incompatible with acids ons may occur on mixing with these n	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition may release irritating gases, such as metal oxides, or toxic gases, such as carbon monoxide.				
HAZARDOUS POLYMERIZATIO	DN:	None		
SECTION 11: TOXICOLOGICAL		N		

Essential trace minerals are not a health hazard at low concentrations. This product contains one or more nutritionally-significant metals in organic complexes. 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 individual mineral components of this product, but note that the product, as supplied contains no free metals.

Acute Toxicity: (Not Classified) Acute toxicity data for metal constituents, LD<sub>50</sub> (oral, rat): Cobalt 6171 mg/kg

#### Sub acute/Chronic Effects associated with mineral components:

Skin Sensitizer, Category 1:	This product contains cobalt in the mixture at a concentration greater than 0.1% by weight. May cause an allergic skin reaction or other allergic response, particularly with repeated exposure.
Carcinogen, Category 2:	The International Agency for Research on Cancer (IARC) has determined that cobalt and cobalt compounds are possibly carcinogenic to humans, primarily by inhalation (Group 2B). This product contains cobalt in the mixture at a concentration greater than 1% by weight.
Mutagen, Category 2:	Cobalt metal and stable inorganic cobalt compounds have been shown to be genotoxic or mutagenic in mammalian somatic cell assay systems. This product contains an organic form of cobalt in the mixture at a concentration greater than 1.0% by weight.
Skin Irritant:	Not Classified.
Eye Irritant:	Not Classified.
Reproductive Toxicity:	Not Classified. This product contains cobalt at a concentration less than 3% by weight. May cause developmental effects in offspring. This is based only on animal studies.
Target Organ:	Not Classified
Aspiration toxicity:	Not Classified
PTOMS OF OVEREXPOSURE to	o trace minerals: Irritation or huming of nose throat or skin: stomach cramps, hausea, vomiting

SYMPTOMS OF OVEREXPOSURE to trace minerals:

Irritation or burning of nose, throat, or skin; stomach cramps, nausea, vomiting, diarrhea, behavior changes, deterioration of motor skills.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE: Asthma or other respiratory problems, existing dermatitis

# SECTION 12: ECOLOGICAL INFORMATION

This product contains cobalt, a metal that occurs naturally throughout the environment, in rocks, soil, and water and is an essential element in plants and animals. Inorganic cobalt and cobalt compounds have limited usage as pesticides, primarily as a wood preservative and fungicide, illustrating that targeted ecological effects of such materials do occur. There is no data regarding the actual eco-toxicity of the organometallic complex in this product, which is formulated and approved for ingestion by livestock.

# SECTION 13: DISPOSAL CONSIDERATIONS

This product is not a hazardous waste 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

Organometallic complexes are not specifically regulated under any of the listed programs. The metallic component as a free metal is regulated as follows:

#### **U.S. FEDERAL REGULATIONS**

TSCA (TOXIC SUBSTANCE CONTROL ACT) listed: Cobalt and cobalt compounds

CERCLA (CO	MPREHENSIV	E RESPONSE (	COMPENSATION,	AND LIABILITY A		ned, although the class is a rdous substance.
302 EXT 304 EXT 311/312	REMELY HAZ	ARDOUS SUBS ARDOUS SUBS EGORIES:		Not EHS Not EHS Chronic: Yes	Fire: No Pressu	re: No Reactivity: No
CLEAN AIR ACT	CLEAN AIR ACT AMENDMENTS Section 112: Cobalt compounds are listed as Hazardous Air Pollutants in Section 112 of the CAAA and may be subject to regulation if emitted to the air.					
STATE REGULAT	IONS:	Refer to i	ndividual state age	ncy for information	۱.	
INTERNATIONAL	REGULATION				nation System (ESIS) rmation System (HSIS	)
SECTION 16: OTI	HER INFORMA	TION				
OTHER INFORM	ATION: Nor	ne				
NFPA HAZARD C HEALTH:		N Ammability:	1 REACT	IVITY: 0		
HMIS HAZARD CL HEALTH:		N Ammability:	1 PHYSIC	CAL: 0	PROTECTION:	1B
PREPARATION IN	IFORMATION:					
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 Pesticide Network Database 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						
<b>DISCLAIMER:</b> 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.						