SAFETY DATA SHEET (SDS)

Agro-K Corporation

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Symbex 4X Common Name: Liquid fertilizer

Identified Uses: Intended for agriculture. Not for human consumption.

Supplier: AGRO-K CORPORATION

8030 MAIN STREET NE

MINNEAPOLIS, MN 55432

Telephone: (763) 780-4116 / (800) 328-2418

FAX: (763) 780-4316

CHEMTREC

Emergency Telephone: (800) 424-9300

II. HAZARDS IDENTIFICATION

Classification:

Skin Irritant 3 H316 Eye Irritant 2A H319 STOT SE 3 H335 Aquatic Acute 3 H402



Hazard pictogram:

Signal word: Warning

Hazard statements: H316 – May cause skin irritation H319 – Causes eye irritation

H335 – May cause respiratory irritation

H402 – Harmful to aquatic life

Precautionary statements: P261 – Avoid breathing dust

P264 – Wash thoroughly after handling

P271 – Use only outdoors or in a well-ventilated area P273 – Avoid release to aquatic environment

P280 – Wear protective gloves/clothing/eyewear/face

P302+P352 - If on skin: Wash with plenty of soap and water

P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

Date: 2/3/2015

lenses, if present and easy to do. Continue rinsing P312 – Call a poison center/doctor if you feel unwell

P332+P313 – If skin irritation occurs: Get medical advice/attention P337+P313 – If eye irritation occurs: Get medical advice/attention P362 – Take off contaminated clothing and wash before reuse

P501 – Dispose of contents/container in accordance with local/regional/national regulations

III. COMPOSITION/INFORMATION ON INGREDIENTS

Blend of the following ingredients:

Chemical Compound	CAS
	Number
Cobalt Carbonate	513-79-1
Proprietary mixture containing soluble Zinc compounds	
Proprietary mixture containing soluble Calcium compounds	

^{*}Ingredients not specifically listed are non-hazardous and are considered to be confidential

IV. FIRST AID MEASURES

If in Eyes: Hold eyelid open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops and persists, call a poison control center or

doctor immediately for treatment advice.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of soap

and water for 15-20 minutes. Call a poison control center or doctor

immediately for treatment advice.

If Swallowed: Do not induce vomiting unless told to do so by a poison control center or

doctor. Have a person sip a glass of water if able to swallow. Do not give anything to an unconscious or convulsing person. Call a poison control center

or doctor immediately for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth if possible. Call a

poison control center or doctor for further treatment advice.

Hotline Number: Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 1-800-424-9300.

V. FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam. Dry Powder. Carbon dioxide. Water spray. Sand. Use extinguishing

media for underlying cause of fire. Do not use heavy water stream.

Advice for firefighters: Wear self-contained breathing apparatus and full protective equipment. Use

water spray to cool containers exposed to heat and flame. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

VI. ACCIDENTAL RELEASE MEASURES

Spill procedure: Capture product and reuse material if uncontaminated. If contaminated, place in

a suitable container for proper disposal. Prevent entry to sewers and water

supplies.

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: If indoors: ventilate area

VII. HANDLING AND STORAGE

Precautions for safe handling: Wash hands and exposed areas with soap and water before eating, drinking, or smoking.

Provide good ventilation in process area. Avoid breathing dust

Storage Conditions: Keep in closed container and properly labeled. Avoid generating dust.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Compound	CAS	ACGIH TLV	OSHA TWA
	Number		
Cobalt Carbonate	513-79-1	0.02 mg/m^3	0.1 mg/m ³
		(listed under	(listed under
		cobalt, inorganic	cobalt, inorganic
		compounds)	compounds)

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Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Wear protective eyewear if misting exposure is expected.

Respiratory protection: Wear appropriate mask if exposure is expected.

Other information: Do not eat, drink, or smoke during use.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical description: Liquid with suspended solids

Color: Brownish pink
Odor: Slight sweet
Odor threshold: No data available
Vapor density: No data available

pH: 4.0 Relative density: 1.05

Melting/freezing point: No data available Solubility: Not soluble in water Boiling point: No data available Flash point: No data available Flammability: No data available Vapor Pressure: No data available Partition coefficient: No data available Auto-ignition temperature: No data available Viscosity: No data available

X. STABILITY AND REACTIVITY

Chemical stability: Stable.

Conditions to avoid: None currently known. Incompatibility with other materials: None currently known.

Hazardous combustion: Will not occur. Hazardous polymerization: Will not occur.

XI. TOXICOLOGY

Potential acute health effects:

Eyes: Irritating to eyes. May cause sensitization by inhalation.

Skin: Irritating to skin.

Inhalation: Mist may cause irritation.

Ingestion: May cause sensitization by skin contact.

Potential chronic health effects

Carcinogenic effects: No known significant effects or critical hazards. Mutagenic effects: No known significant effects or critical hazards.

United States Acute toxicity

Product/ingredient	Result	Species	Dose	Exposure
name				
Cobalt carbonate	LD50 Oral	Rat	640 mg/kg	Not Available
Zinc mixture	LD50 Oral	Rat	>10000 mg/kg	Not Available
Calcium mixture	LD50 Oral	Rat	6450 mg/kg	Not Available

Conclusion Summary: carbonic acid, cobalt(2+) salt (1:1): Inhalation of this material may cause sensitive individuals to develop eczema and/or asthma

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Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified A3 (Proven for animals.) by ACGIH

[carbonic acid, cobalt(2+) salt (1:1)].

MUTAGENIC EFFECTS: Classified 3 by European Union [carbonic acid, cobalt(2+)

salt (1:1)].

Other Toxic Effects Very hazardous by the following route of exposure – ingestion

XII. **ECOLOGICAL INFORMATION**

Aquatic ecotoxicity: No data available No data available **Biodegradability:**

Environmental Precautions: No known significant effects or critical hazards Not available

Mobility:

Other Adverse Effects:

No known significant effects or critical hazards

XIII. **DISPOSAL CONSIDERATIONS**

Waste Disposal Method: This material must be disposed of according to federal, state, or local procedures

under the resource conservation and recovery act.

FERTILIZER DISPOSAL: Use according to label instructions, contact your State or Environmental

Control Agency or the Hazardous Waste representative at the nearest EPA

Regional Office for guidance.

CONTAINER DISPOSAL:

Nonrefillable container: Do not reuse or refill this container. Then offer for recycling if available, or

puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsed cannot be used, follow fertilizer disposal instructions. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container \(\frac{1}{4} \) full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip.

Repeat this procedure two more times.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 % full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times

XIV. TRANSPORT INFORMATION

Not regulated by DOT Shipping Name:

Hazard Class: None Identification No.: None Labels Required: None Placarding: None

XV. REGULATORY INFORMATION

HCS Classification: Irritating material

Sensitizing material

U.S. Federal regulations:

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted. Clean Air Act (CAA) 112 accidental release prevention: No products were found. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Form R – Reporting requirements Supplier notification:

Carbonic acid, cobalt (2+) salt (1:1) 513-79-1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

USA

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

EU regulations carbonic acid, cobalt(2+) salt (1:1)

S53- Avoid exposure - obtain special instructions before use.

S22- Do not breathe dust.

S36/37- Wear suitable protective clothing and gloves.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

R49- May cause cancer by inhalation.

R68- Possible risk of irreversible effects.

R60- May impair fertility.

R20/22- Also harmful by inhalation and if swallowed.

R42/43- May cause sensitization by inhalation and skin contact.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

International regulations/ International lists:

Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

XVI. OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Agro-K, Corporation knowledge. Agro-K, Corporation makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

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