

SECTION 1: IDENTIFICATION

Product Name: MAX-IN® Sulphur 13% Common Name: Liquid potassium fertilizer Chemical Description: Potassium thiosulfate Recommended Uses: Fertilizer product – See product label for full directions for use. Restrictions for Use: See product label for any potential restrictions on use.		
Manufactured for: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589, USA	Initial Supplier: WINFIELD UNITED CANADA, ULC 101-302 Wellman Lane Saskatoon, Saskatchewan S7T-0J1, CAN 1-306-249-5112	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)		

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear liquid that darkens with age. Causes temporary skin and eye irritation.		
POTENTIAL HEALTH EFFECTS: Eyes: Causes moderate but temporary eye irritation. Skin: Causes moderate but temporary skin irritation. Prolonged exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions. Inhalation: May cause mild irritation of the upper respiratory tract. Ingestion: May cause irritation of the gastric system. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to mists. Chronic Health Effects: None known		
Carcinogenicity	NTP: Not listed	IARC: Not listed OSHA: Not listed
WHMIS 2015 CLASSIFICATION: Skin Irritation Category 2; Eye Irritation Category 2A		
SIGNAL WORD: WARNING		
HAZARD STATEMENTS: Causes skin irritation. Causes serious eye irritation.		
Percent of product with unknown toxicity: 0.1%		
PRECAUTIONARY STATEMENTS: Prevention: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Response: If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Storage: See Section 7 for storage information. Disposal: See Section 13 for disposal information.		


SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Potassium thiosulfate	38.25%	10294-66-3
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
Ingestion:	Seek medical attention or call a poison control center for treatment advice if you feel unwell. Do not induce vomiting unless instructed to do so by a poison control center or doctor.
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Eyes:	Do not give anything by mouth to an unconscious person. Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry chemical, water spray or foam
Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Hazardous Combustion Products: Oxides of sulfur, potassium, and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.
Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Environmental Precautions: Do not allow spilled product to enter sewers or waterways.
Methods for Containment: Contain spilled product by diking area with sand or earth.
Methods for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation during handling and use. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Storage: Store in cool, dry areas away from children, food and feed products in an area away from incompatible substances. Ensure that storage area is secured. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature. Do not store in aluminum or metal vessels.
Minimum Storage Temperature: 4°C
Other Precautions: Consult Federal, provincial and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines			
Component:	OSHA PEL	ACGIH TLV	NIOSH REL
No components have established limits			
Respiratory Protection: If conditions are poorly ventilated, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.			
Engineering Controls:	Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.		
Protective Gloves: Wear chemically protective gloves to prevent exposure to skin.			
Eye Protection: To avoid contact with eyes, wear chemical safety goggles or safety glasses and full face shield. Contact lenses are not protective eye devices. An emergency eyewash or water supply should be readily accessible to the work area.			
Other Protective Clothing or Equipment: Wear long-sleeve shirt, long pants and chemically protective shoes plus socks to prevent skin contact.			
Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.35 - 1.37 (typical)
Vapor Pressure (mm Hg):	Not determined	Melting Point/Freezing Point:	Not determined
Vapor Density (Air=1):	Not determined	Boiling Point/Range:	Not determined
Solubility in Water (wt %):	Miscible	pH:	7.5 – 8.5
Viscosity:	Not determined	Flash Point:	Not determined
Appearance and odor:	Clear liquid that darkens with age		

SECTION 10: STABILITY AND REACTIVITY**Reactivity:** None known**Chemical Stability:** Product is stable at ambient temperature and pressure, under normal storage and handling conditions.**Possibility of Hazardous Reactions:** Will not occur**Conditions to Avoid:** Excessive heat**Incompatible Materials:** Strong bases and acids.**Hazardous Decomposition Products:** Oxides of sulfur, potassium, and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.**SECTION 11: TOXICOLOGICAL INFORMATION****ACUTE TOXICITY****Eye Effects:** Causes moderate but temporary eye irritation.**Skin Effects:** Estimated LD₅₀ = 2,519 mg/kg; Causes moderate but temporary skin irritation.**Acute Inhalation Effects:** Estimated LC₅₀ >3.0 mg/L; No mortality of test animals observed during tests on components. Expectation is that the product is non-toxic by inhalation. May cause irritation of the upper respiratory tract.**Acute Oral Effects:** Estimated LD₅₀ >5,000 mg/kg**Specific Target Organ Toxicity:** Not determined**CHRONIC TOXICITY****Chronic Effects:** None known**Carcinogenicity:** No component is anticipated to have carcinogenic effects.**Mutagenicity:** No component is anticipated to have mutagenic effects.**Teratogenicity:** No component is anticipated to have teratogenic effects.**Reproductive Toxicity:** No component is anticipated to have effects on the reproductive system.**POTENTIAL HEALTH EFFECTS:****Eyes:** Causes moderate but temporary eye irritation.**Skin:** Causes moderate but temporary skin irritation. Prolonged exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions.**Inhalation:** May cause mild irritation of the upper respiratory tract.**Ingestion:** May cause irritation of the gastric system.**SECTION 12: ECOLOGICAL INFORMATION****ENVIRONMENTAL SUMMARY:** Not determined**ECOTOXICITY DATA:****Fish Acute and Prolonged Toxicity:** Not determined**Aquatic Invertebrate Acute Toxicity:** Not determined**Aquatic Plant Toxicity:** Not determined**Bird Acute and Prolonged Toxicity:** Not determined**Honeybee Toxicity:** Not determined**ENVIRONMENTAL EFFECTS:****Soil Absorption/Mobility:** Not determined**Persistence and degradability:** Not determined**Bioaccumulative Potential:** Not determined**Other adverse effects:** Not determined**SECTION 13: DISPOSAL CONSIDERATIONS****Waste:** Dispose of in accordance with applicable Federal, provincial and local laws and regulations.

Container: Triple rinse and recycle the container or dispose of in accordance with Federal, provincial and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

DOT: Not Regulated
(Ground)

IMDG: Not Regulated
(Sea)

IATA: Not Regulated
(Air)

TDG: Not Regulated
(Canada)

SECTION 15: REGULATORY INFORMATION**International Inventories**

TSCA Inventory: All components are listed or exempt from listing on the TSCA inventory.

Canadian Domestic Substances List: All components are listed on the DSL.

SECTION 16: OTHER INFORMATION

NFPA HAZARD RATING	Health	1
	Flammability	0
	Reactivity	0
	4= Severe 3= High 2= Moderate 1= Slight 0= Least	

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