

1. IDENTIFICATION

PRODUCT NAME: Sectagon-42
DESCRIPTION: An agricultural fumigant
EPA Reg. No.: 61842-6
Chemical Characterization: Dithiocarbamate salt solution
COMPANY IDENTIFICATION: Tessenderlo Kerley, Inc.
 2910 N. 44th Street, Suite 100
 Phoenix, AZ 85018-7272
 (602) 889-8300

2. HAZARD IDENTIFICATION

DANGER

Harmful if inhaled (H332)
 Causes severe skin burns and eye damage (H314)
 May cause an allergic skin reaction (H317)
 Suspected of causing cancer (H351)
 Harmful if swallowed or in contact with skin (H302+H332)
 May be corrosive to metals (H290)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute toxicity, inhalation	4	Corrosive to metals	1
Serious eye damage / irritation	2b		
Skin corrosion / irritation	2	Environmental Hazards	Category
Skin sensitization	1	Hazardous to the Aquatic Environment – Acute	1
Carcinogenicity	2	Hazardous to the Aquatic Environment – Chronic	1
Acute toxicity, oral	4		
Acute toxicity, dermal	4		

HAZARDS NOT REQUIRING CLASSIFICATION

Prolonged exposure to air will result in decomposition to form methyl isothiocyanate (MITC) a very toxic and flammable material. Metam sodium solutions are corrosive to copper, zinc and aluminum or any of their alloys such as brass, bronze or galvanized materials. These materials of construction should not be used in handling systems or storage containers for this product. May react with strong oxidizers and acids.

PRECAUTIONARY STATEMENTS

Obtain, read, and follow all safety instruction before use. Keep only in original packaging. (P203+P234)
 Do not breathe fumes/gas. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Do not eat, drinking or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective clothing as described in Section 8 of this document. Wear respiratory protection. (P260+P264+P265+P270+P271+P272+P280+P284)
 Avoid release to the environment not in accordance with the product label. (P273)
 Get emergency medical help immediately. Specific treatment (see Section 4 of this document). (P316+P321)
 IF exposed or concerned, get medical advice. (P318)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment is urgent (see First Aid section on this label). (P304+P340+P316+P320)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301P330+P331)

IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash with plenty of water. Wash contaminated clothing before reuse. Get medical help. Specific

2. HAZARD IDENTIFICATION (Continued)

treatment (see Section 4 of this document). If skin irritation or rash occurs: Get medical help. (P302+P361+P354+ +P352+ P363+P317+P321 P333+P317)

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. (P305+P354+P338+P317)

Wash contaminated clothing before reuse. (P363)

Absorb spillage to prevent material damage. (P390)

Collect spillage. (P391)

Store in a well-ventilated place. Keep container tightly closed/ Store locked up. Store in a corrosion resistant container with resistant inner liner. (P403+P233+P405+P406)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Sodium methylthiocarbamate	Carbamodithioic acid, methyl-, monosodium salt	137-42-8	42.2%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies contact 1-866-374-1975. For transportation emergencies including spill, leak or fire, contact CHEMTREC at 1-800-424-9300. See Label for Additional Precautions and Directions for Use.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye 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. Call a poison control center or doctor 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 by mouth-to-mouth, if possible. Call a poison center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIREFIGHTING MEASURES

Flash point: > 200°F (> 93°C)

Fire and Explosion Hazards: Heating will cause the release of MITC and hydrogen sulfide, both highly toxic and flammable gases. It is also conceivable that product breakdown from heating could release carbon disulfide and methylamine, which are also toxic and flammable.

Extinguishing Medium: Use firefighting measures that suit the environment such as, dry chemical, foam, carbon dioxide (CO₂), and water spray (fog). If water is used to fight fire, dike and collect runoff.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: MITC, hydrogen sulfide, carbon disulfide, methylamine.

NFPA Ratings: Health – 2 / Flammability – 0 / Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems, drainage systems, any waterways or low areas. Do not flush to drain or soil. Contain contaminated water.

Spill Cleanup: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling: Do not get in eyes, on skin, or on clothing. May be fatal if swallowed or inhaled. Do not breathe vapor or spray mist.

Storage: Store in a cool, dry place, keep container closed when not in use. Do not store below 0° F. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use.

Do not stack more than three drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Exposure Guidelines:

	OSHA		ACGIH	
	<u>TWA</u>	<u>Ceiling</u>	<u>TLV</u>	<u>STEL</u>
Hydrogen sulfide:	None	20 ppm	10	15

Protective Clothing: Wear chemical-resistant coveralls over long-sleeve shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks, chemical-resistant headgear, and respirator of the type specified in the respiratory protection section in the PPE requirements on this label.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and was PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	pale yellow through colorless to yellow/amber liquid	pH:	9.5 to 11.5
Melting point:	not available	Kinematic viscosity:	3.0 to 5.0 cP
Boiling point:	230°F (110°C)	Solubility (water):	fully miscible
Flammability:	not available	Partition coefficient:	not available
Flammability limits (upper/lower):	not available	Vapor pressure:	21 mm Hg (2.8 kPa) @77°F (25°C)
Flash point:	> 200°F (> 93°C)	Density:	not available
Auto-ignition temperature:	not available	Relative vapor density:	not available
Decomposition temperature:	not available	Particle characteristics:	not available
Odor:	Strong sulfur like odor		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Elevated temperatures or dilution with water.

CHEMICAL STABILITY: This is a stable product under ambient conditions of temperature and pressure.

INCOMPATIBILITY WITH OTHER MATERIALS: Prolonged exposure to air will result in decomposition to form methyl isothiocyanate (MITC) a very toxic and flammable material. Metam sodium solutions are corrosive to copper, zinc and aluminum or any of their alloys such as brass, bronze or galvanized materials. These materials of construction should not be used in handling systems or storage containers for this product. May react with strong oxidizers and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Heating this product will evolve MITC, hydrogen sulfide, and potentially carbon disulfide and methylamine. Heating to dryness will cause production of oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following information is for the active ingredient, Metam Sodium:

ORAL TOXICITY (rat LD₅₀): 780-845 mg/kg (female and male rats)

DERMAL TOXICITY (rat LD₅₀): >2020 mg/kg

INHALATION TOXICITY (rat LC₅₀): 2.27 mg/L

EYE IRRITATION: Slight Irritation (rabbits)

SKIN IRRITATION: Non-irritating to the skin (male rabbits)

SKIN SENSITIZATION: Positive for sensitization (guinea pigs)

CARCINOGENICITY: Lab studies have shown some carcinogenic effects in lab animals (sodium salt).

EPA: Likely to be carcinogenic to humans (metam sodium)

ACGIH: Not Listed **NTP:** Not Listed

IARC: Not Listed **OSHA:** Not Listed

TERATOLOGY: Lab studies have shown some developmental effects in lab animals (sodium salt).

REPRODUCTIVE TOXICITY: Lab studies have shown no evidence of reproductive toxicity in lab animals (sodium salt).

MUTAGENICITY / GENOTOXICITY: Lab studies have shown some evidence of mutagenicity in vitro but no conclusive evidence in vivo (sodium salt).

12. ECOLOGICAL INFORMATION

Metham sodium is toxic to aquatic species and is a listed Marine pollutant. Do not apply to waterways, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate waterways when disposing of equipment wash waters.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. See container label for container handling and disposal instructions.

14. TRANSPORT INFORMATION

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

US-DOT:

Containers ≤ 1.3 gal. (5 L):

Not regulated

Containers ≥ 1.3 gal. (5 L):

UN3266, Corrosive liquid, basic, inorganic, N.O.S. (metam sodium), ENVIRONMENTALLY HAZARDOUS, 8, PG II, Marine Pollutant

IMDG:

UN3266, Corrosive liquid, basic, inorganic, N.O.S. (metam sodium), ENVIRONMENTALLY HAZARDOUS, 8, PG II, Marine Pollutant

IATA:

UN3266, Corrosive liquid, basic, inorganic, N.O.S. (metam sodium), ENVIRONMENTALLY HAZARDOUS, 8, PG II, Marine Pollutant

EMS Number:

F-A, S-B

Additional Transportation Information: In accordance with 49 CFR 171.4(c), non-bulk packagings (max capacity of 119 gal. (450 L) or less for liquids or 882 lbs. (400 kg) or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations in 49 CFR and therefore treated as non-hazardous material. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and are shipped according to the requirements listed.

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the GHS classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Fatal if absorbed through skin. Corrosive. Causes skin burns and irreversible eye damage. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed or inhaled. Do not breathe vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, aquatic invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

Metam-sodium has certain properties and characteristics in common with chemicals that have been detected in groundwater (highly soluble in water and has low adsorption to soil). For untargeted applications, leaching and runoff may occur if there is heavy rainfall after soil fumigation.

15. REGULATORY INFORMATION (Continued)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances):

Not listed.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute), Delayed (Chronic)


Section 313 (Toxic Release Reporting-Form R):

Metham Sodium (CAS No. 137-42-8): 42.2%

CERCLA/SUPERFUND:

RQ (Reportable Quantity): Not applicable

California Proposition 65

 **WARNING:** This product can expose you to chemicals including metham sodium, which is known to the State of California to cause cancer and developmental toxicity. For more information, go to www.P65Warnings.ca.gov.

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

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SDS Version: 2.2

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