

SAFETY DATA SHEET MARTIN'S TOP SHOT

1. IDENTIFICATION

Product name: **Martin's Top Shot**
Product type: Herbicide
EPA Registration No.: 53883-345
Chemical name of active ingredient(s): **Metsulfuron Methyl**: methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) amino]carbonyl]amino] sulfonyl] benzoate
Manufacturer/Registrant: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507
For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300
For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050
Poison Control Center Phone: 1-800-222-1222

2. HAZARDS IDENTIFICATIONS

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Toxicity:

Exposure Route	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	NC	NC	4	2B	2	NC

NC: Not classified

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

- Harmful if inhaled
- Cause eye irritation
- Cause skin irritation
- Aquatic toxicity

PICTOGRAMS:



PRECAUTIONARY STATEMENTS:

- Avoid breathing mist, vapors and spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove victim to fresh air and keep comfortable for breathing.
- Wash hands thoroughly after handling. 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.

SAFETY DATA SHEET

MARTIN'S TOP SHOT

- Wash hand thoroughly after handling. Wear protective gloves. If no skin: Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and was it before reuse.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Metsulfuron-methyl	74223-64-6	25	NE	NE	NA	NA
Calcium dedecylbenzene sulphonate in aromatic solvents mixture containing :			NE	NE	NA	NA
Aromatic solvent	64742-94-5	<5	NE	NE	NA	NA
Naphthalene	91-20-3	<0.1	10 ppm 50 mg/m ³	10 ppm 52 mg/m ³	15 ppm 75 mg/m ³ (STEL)	NTP – 2* IARC –2B**

NE= Not established

NA= Not applicable

* Substances, which may reasonably be anticipated to be carcinogens.

** IARC Group 2B: Substance is possibly carcinogenic to humans

4. FIRST AID MEASURES

FIRST AID	
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday-Friday, 7:30 AM-3:30 PM PST. You may also contact the National Poison Control Center, 1-800-222-1222, day or night, for emergency medical treatment information or SafetyCall® at (866) 897-8050. For CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accidental call CHEMTREC 1-800-424-9300.</p>	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: Water mist, water spray jet, CO₂, dry chemical and foam.

UNUSUAL FIRE & EXPLOSION HAZARDS: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Combustion products of this material have to be classed invariably as respiratory poison.

FIRE-FIGHTING PROCEDURES: Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing. Cool fire exposed areas and equipment.

SAFETY DATA SHEET

MARTIN'S TOP SHOT

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can produce hydrogen chloride, hydrogen fluoride, oxides of nitrogen, oxides of sulfur and carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid contact with skin, eyes and clothing. Use personal protective clothing.

METHODS FOR CLEANING UP/TAKING UP: Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage or disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact with skin and eyes. Take precautions to avoid damaging containers. Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking. Clean water should be available to rinse eyes and skin in case of chemical exposure.

PRECAUTIONS TO BE TAKEN IN STORAGE: Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container. Store away from foodstuffs, feed, and children.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Protective eyewear or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

SKIN PROTECTION: Long-sleeve shirt, long pants, shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves.

RESPIRATOR REQUIREMENTS: None likely to be needed. NIOSH approved P class filtering face piece or respirator may be used to minimize inhalation of aerosols.

WORK HYGIENIC PRACTICES:

Clean water should be available to rinse eyes and skin in case of chemical exposure. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

ADDITIONAL PROTECTIVE MEASURES:

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

USER SAFETY RECOMMENDATIONS:

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 3.

ENGINEERING CONTROLS: Use only in adequately ventilated areas.

SAFETY DATA SHEET

MARTIN'S TOP SHOT

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow liquid
ODOR: Ester like
pH: 4.5 (1% in deionized water)
FLASH POINT: Not applicable
SPECIFIC DENSITY: 1.03 g/mL @20°C
VISCOSITY: 129 cps@20°C
SOLUBILITY IN WATER: Not available
MELTING POINT: Not available
SOLUBILITY: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.
CONDITIONS AND MATERIALS TO AVOID: Oxidizing agents, acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can produce hydrogen chloride, hydrogen fluoride, oxides of nitrogen, oxides of sulfur and carbon oxides.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD₅₀ (Rat): > 5,000 mg/kg
Acute Dermal LD₅₀ (Rabbit): > 5,000 mg/kg
Acute Inhalation LC₅₀ (Rat): > 2.06 mg/L
Eye Irritation: Mildly irritating.
Skin Irritation: Moderately irritating.
Dermal Sensitization: Not a skin sensitizer

OTHER TOXICOLOGICAL INFORMATION:

CARCINOGENICITY: No experimental information on carcinogenic effects available.

GENOTOXICITY: No experimental information on genotoxicity available.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

ECOTOXICOLOGICAL INFORMATION: (Data based on Metsulfuron-methyl technical)

Rainbow trout LC₅₀ (96h): > 150 mg/L
Daphnia EC₅₀ (48h): > 120 mg/L
Algae EC₅₀ (72h): 0.157 mg/l
Mallard duck LD₅₀ : > 2,510 mg/kg

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

SAFETY DATA SHEET

MARTIN'S TOP SHOT

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN3082, Environmentally hazardous substance, liquid, N.O.S. (Metsulfuron-methyl), 9, PG III, marine pollutant

IATA (air): UN3082, Environmentally hazardous substance, liquid, N.O.S. (Metsulfuron-methyl), 9, PG III, marine pollutant

15. REGULATORY INFORMATION

FIFRA INFORMATION:

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 classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION Cause moderately eye irritation. Avoid contact with skin, eye or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Section 313: Naphthalene (CAS #: 91-20-3)

CA PROPOSITION 65: Not applicable

CERCLA RQ: Calcium-dodecylbenzenesulphonate (CAS #: 26264-06-2) RQ = 1,000 lbs.

Naphthalene (CAS #: 91-20-3) RQ= 100 lbs

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.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	1	1	0 MINIMAL
FLAMMABILITY:	1	1	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: 5-2-2014.

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