

### **SAFETY DATA SHEET**

SDS ID: 74530-44-74530

Conforms to UN Globally Harmonized System and OSHA Hazard Communication Standard 29 CFR 1910.1200(g)

SECTION 1. IDENTIFICATION		
Product Name:	Katagon	
Synonyms:	Tolpyralate + Nicosulfuron Herbicide	
Chemical Name:	Tolpyralate: 1-[[1-ethyl-4-[3-(2-methoxyethoxy)-2-methyl-4-(methylsulfonyl)benzoyl]-1 <i>H</i> -pyrazol-5-yl]oxy]ethyl methyl carbonate	
Chemical Name.	Nicosulfuron: 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino] sulfonyl]-N,N-dimethyl-3-pyridinecarboxamide	
Chemical Family:	Benzoyl pyrazole + Sulfonylurea mixture	
Recommended Uses:	Agricultural industry: Herbicide	
EPA Registration No.:	71512-44-74530	
Company Identification:	HELM Agro US, Inc. 401 E Jackson St., Suite 1400 Tampa, FL 33602 813-621-8846 info@helmagro.com	
<b>24 Hour Emergency Number:</b> For Transportation emergency, spills, leak, fire or acciden CHEMTREC 1-800-424-9300		
	For 24-Hour Medical Emergency Assistance call National Poison Control Center at 1-800-222-1222.	

## **SECTION 2. HAZARDS IDENTIFICATION\***

**Hazard Classification**: Skin sensitization (Category 1)

Specific target organ toxicity, repeated exposure (Category 2)

Chronic aquatic toxicity (Category 1)

Signal Word: WARNING

Hazard Symbols:







## **Hazard Statements:**

May cause an allergic skin reaction. May cause damage to eye, liver and kidney through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

# **Precautionary Statements:**

Do not breathe dust/mist/vapors. Wash mouth thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/face protection.

IF ON SKIN: Wash with plenty of soap and water. If exposed or concerned: Call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Take off contaminated clothing and wash before reuse. Collect spillage. Store locked up. Dispose of contents/container in accordance with governmental and local regulations.

\*According to OSHA criteria. For FIFRA criteria, see section 15

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS			
Chemical Name:	CAS#:	% by Weight:	TLV/PEL:
Active Ingredient: Tolpyralate	1101132-67-5	11.72	Not established
Active Ingredient: Nicosulfuron	111991-09-4	11.72	Not established
Calcium dodecylbenzenesulfonate	26264-06-2	< 5	Not established
Isotridecanol, ethoxylated	9043-30-5	< 5	Not established

SECTION 4.	SECTION 4. FIRST-AID MEASURES		
Ingestion:	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.		
Skin Contact:	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.		
Eye Contact:	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.		
Inhalation:	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 control center or doctor for treatment advice.		
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.			

SECTION 5. FIRE-FIGHTING MEASURES		
Extinguishing Media:	Use polyvalent foam, ABC powder, carbon dioxide or water spray	
Unusual Fire and Explosion Hazards:	No data available	
Fire Fighting Instructions:	Wear full firefighting turn-out gear and self-contained breathing apparatus.	

SECTION 6. ACCIDENTAL RELEASE MEASURES		
Precautionary Measures:	Use protective equipment and engineering controls identified in section 8 of this document.	
Containment and Clean-Up:	Contain spill. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Wash spillage area with water. Do not allow wash water to enter drains or surface waters. If in bodies of water, immediately discontinue human and animal consumption and contact local competent authorities.	

SECTION 7.	SECTION 7. HANDLING AND STORAGE		
Precautions:	Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.		
Storage:	Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.		

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## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

The recommendations in this section for exposure controls and Personal Protection are intended for industrial settings (such as formulation or packaging facilities) or for other non-application situations.

For additional information, refer to the precautions/warnings on the product label. Always follow the label instructions when handling and using this product.

**Exposure Limits:** Not established.

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls

to manage airborne levels.

**Personal Protection:** 

**Ingestion:** Wash thoroughly with soap and water after handling and before eating, drinking,

chewing gum, using tobacco or using the toilet.

**Eye Contact:** Where eye contact is possible, use protective eyewear (such as chemical splash

goggles).

**Skin Contact:** Where contact is likely, wear chemical-resistant gloves (such as polyethylene,

polyvinyl chloride (PVC), or nitrile rubber), coveralls over long-sleeved shirt and

long pants, socks and chemical-resistant footwear.

**Inhalation:** A respirator is not normally required when handling sealed containers. Use

effective engineering controls to comply with facility occupational exposure limits.

In case of emergency spills, use a NIOSH-approved particulate respirator with any

N, R, P or HE filter.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical Appearance:	Light yellow liquid	
Odor:	Characteristic chemical odor	
pH:	4.7 @ 20°C (1% aqueous mixture)	
Boiling Point:	230°F (110°C)	
Melting Point:	Not available	
Freezing Point:	Not applicable	
Evaporation Rate:	Not available	
Flash Point:	None; substance boils and extinguishes flame at 230°F	
Flammable Limits:	Not established	
Vapor Pressure:	Not available	
Vapor Density:	Not available	
Density:	1.024 g/mL @ 20°C	
Solubility:	Not available	
N-Octanol/Water:	Not available	
Auto-Ignition Temperature:	Not available	
Decomposition Temperature:	Not available	
Volatility:	Not available	

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SECTION 10. STABILITY AND REACTIVITY		
Reactivity:	No evidence of reactivity.	
Stability:	This product is stable under normal use and storage conditions.	
Possibility of Hazardous Reactions:	None known.	
Conditions to Avoid:	Avoid contact with heat or open flame.	
Incompatible Materials:	None known.	
Hazardous Decomposition	May react with oxidizing agents or decompose under fire	
Products:	conditions to release vapors or gases which are toxic and irritating to the respiratory tract.	

SECTION 11. TOXICOLOGICAL INFORMATION		
Acute Toxicity:	Acute oral toxicity (LD <sub>50</sub> ): Acute dermal toxicity (LD <sub>50</sub> ):	> 5000 mg/kg [Rat] > 5000 mg/kg [Rat]
	Acute inhalation toxicity (LC <sub>50</sub> ):	> 0.65 mg/L
Skin Irritation:	Mildly irritating	
Eye Irritation:	Minimally irritating	
Sensitization:	Skin sensitizer (GHS category 1B)	
Mutagenicity:	No evidence of mutagenicity.	
Carcinogenicity:	Individual testing with tolpyralate and nicosulfuron showed no potential for carcinogenicity.	
Reproductive Toxicity:	Animal studies with tolpyralate and nicosulfuron showed no evidence of reproductive toxicity.	
Target Organ Effects:	Ocular opacity was observed in rats and dogs at exposure levels ranging from 50 – 2000 ppm of tolpyralate. Systemic effects to liver and kidneys were seen at extremely high doses of 2000 ppm or greater. Studies with nicosulfuron show mild effects to red blood cells in rats and increased liver tumors in male mice prone to tumor generation.	
Aspiration:	No data available.	

SECTION 12. ECOLOGICAL INFORMATION		
Ecotoxicity Data:		
Fish (Rainbow Trout) 96-hou	$LC_{50} = 79.2 \text{ mg/L}$	
Invertebrate (Daphnia magn	a) 48-hour EC <sub>50</sub> = 113 mg/L	
Algae (Pseudokirchneriella s	subcapitata) 96-hour ErC₅₀ = 70 mg/L	
Aquatic plant ( <i>Lemna gibba</i> ) 7-day E <sub>r</sub> C <sub>50</sub> : > 244 μg a.i./L; NOEC = 1.02 μg a.i./L (Tolpyralate)		
Persistence / Degradability:	Tolpyralate degrades rapidly in soil, with half-life values ranging from 0.5 – 2.6 days in field conditions. Hydrolysis is dependent on pH, with increasing pH causing faster degradation. Nicosulfuron has low to moderate persistence in soil (DT50 7 – 46 days) with slower degradation under anaerobic conditions. Hydrolysis is evident in acidic water (DT50 15 – 16 days) but not in neutral or alkaline conditions (DT50 > 32 days). Nicosulfuron is not considered readily biodegradable.	
Bioaccumulative Potential:	The potential for tolpyralate to bioaccumulate is extremely low (Log $P_{ow}$ = 1.9). Nicosulfuron shows no evidence of bioaccumulation.	
Mobility in Soil:	High to very high mobility in various soils under laboratory conditions.	

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SECTION 13. DISPOSAL CONSIDERATIONS		
Waste Disposal:	Do not contaminate water, food, or feed by disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.	
Container Disposal:	Nonrefillable container. DO NOT reuse or refill this container. Proper disposal procedures depend on the size and composition of the product container, so follow the disposal directions on the product label which are specific to the container.	

SECTION 14. TRANSPORT INFORMATION			
US DOT Classification:	CLASS 9. Not regulated when shipped in non-bulk packaging by highway or rail.		
	Non-bulk (Ground Transport)	Bulk (Ground Transport)	
Proper Shipping Name:	Not regulated	Environmentally Hazardous Substance, Liquid, N.O.S. (Nicosulfuron, Tolpyralate)	
Hazard Class:	Not regulated	Class 9	
Identification Number:	Not regulated	UN 3082	
Packing Group:	Not regulated	PG III	
Hazardous Substances Reportable Quantity:	Not applicable.		
Special Provisions for Transport:	Class 9 placard not required for non-bulk packaging transported by highway or rail within the U.S. [49CFR 172.504(f)(9)].		
	IATA (Air Transport)	IMDG (Ocean Transport)	
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Nicosulfuron, Tolpyralate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICOSULFURON, TOLPYRALATE)	
Hazard Class:	Class 9	CLASS 9	
Identification Number:	UN 3082	UN 3082	
Packing Group:	PG III	PG III	

# **SECTION 15. REGULATORY INFORMATION**

**U.S. Federal and State Regulations:** 

SARA 313 Inventory Ingredients: Not Listed SARA 312 Hazards Classification: Acute health

Listed as carcinogen by:

IARC: Not Listed
NTP: Not Listed
OSHA: Not Listed
CA Prop 65: Not Listed

**TSCA:** Exempt from TSCA, subject to FIFRA.

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# **SECTION 15. REGULATORY INFORMATION (Continued)**

#### FIFRA:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law (FIFRA). FIFRA requirements differ from the OSHA classification criteria and hazard information required for safety data sheets in Section 2 above, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required by FIFRA on the pesticide label:

### **CAUTION**

Harmful if inhaled. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

DO NOT apply directly to water, 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 rinsewater. DO NOT apply where/when conditions could favor runoff. The two active ingredients in the product are known to leach through soil into groundwater under certain conditions as a result of label use. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

Canada (WHMIS): Exempt

SECTION 16. OTHER INFORMATION	
NFPA Hazard Ratings	0 Minimal
Health: 2	1 Slight
Flammability: 0	2 Moderate
Instability: 0	3 Serious
	4 Extreme

### Notice to Reader

All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion, the information as of the date of the Safety Data Sheet is reliable; however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you; and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by HELM Agro US, Inc.as to the results to be obtained based upon your use of the information, nor does HELM Agro US, Inc.assume any liability arising out of your use of the information.

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