

# SAFETY DATA SHEET



Date Issued : 4/29/2020

SDS No : Savant

## SAVANT

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SAVANT

**PRODUCT DESCRIPTION:** Herbicide

**DISTRIBUTOR**

Innvictis Crop Care, LLC  
1880 Fall River Drive, Suite 100  
Loveland, CO 80538

**24 HR. EMERGENCY TELEPHONE NUMBERS**

ChemTrec 1-800-424-9300

**EPA REG. NO.:** 89168-71-89391

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS**

**Health:**

Eye Irritation, Category 2B  
Skin Irritation, Category 3

**Physical:**

Flammable Liquids, Category 3

**GHS LABEL**



Flame

**SIGNAL WORD:** WARNING

**HAZARD STATEMENTS**

H226: Flammable liquid and vapour.

H316: Causes mild skin irritation.

H320: Causes eye irritation.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

6264LR4H: Use explosion-proof electrical/ventilating/lighting

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P264: Wash hands, face and other affected areas thoroughly after handling.

**Response:**

P332+P313: If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

**Storage:**

P403+P235: Store in a well-ventilated place. Keep cool.

**Disposal:**

P501: Dispose of contents/container to Local, State and Federal Regulations.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes mild eye irritation

**SKIN:** Causes mild skin irritation.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Clopyralid monoethanolamine salt	~ 40.9	57754-85-5
2-propanol	~ 5	67-63-0
Other Ingredients	~ 54.1	Mixture

**4. FIRST AID MEASURES**

**EYES:** Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** No emergency medical treatment expected.

**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 further treatment advice.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** Flammable Liquid and vapors.

**GENERAL HAZARD:** Toxic fumes may be emitted in a fire situation.

**EXTINGUISHING MEDIA:** Dry Chemical, CO<sub>2</sub>, Water Spray, or Foam. For large fires DO NOT use straight streams.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Immediately pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Wash the contaminated area with detergent and soap solution. Check local, state, and federal regulations for proper disposal.

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**LARGE SPILL:** Immediately dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Scrub the contaminated area with a detergent or soap solution. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

**ENVIRONMENTAL PRECAUTIONS**

**LAND SPILL:** 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 cleaning equipment or disposing of equipment washwaters\* Do not contaminate water used for irrigation or domestic purposes\*

**7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Keep away from heat, sparks and flame. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Electrically ground and bond all equipment. Keep out of reach of children. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Do not swallow. Use with adequate ventilation. Keep container closed. Wash thoroughly after handling. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. No smoking, open flames or sources of ignition in handling and storage area.

**HANDLING:** Follow all SDS/label precautions even after container is emptied because it may retain product residues.

**STORAGE TEMPERATURE:** Store below 120 °F, away from sources of ignition such as static build-up, heat, spark or flame. Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-propanol	TWA	400	980	200	490	NL	NL
	STEL			400	960	NL	NL

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear chemical goggles or shielded safety glasses when handling and mixing product.

**SKIN:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**RESPIRATORY:** Work in a well ventilated area. Avoid exposure to airborne contaminants. Wear a NIOSH/MSHA approved dust mask or filter when vapors or dust are generated above the permissible limit above the TLV.

**COMMENTS:**

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL STATE:** Liquid**ODOR:** Alcohol**COLOR:** Amber**pH:** 6 to 7**Notes:** 1% Solution**PERCENT VOLATILE:** Not Available**FLASH POINT AND METHOD:** ~ (123°F) Closed cup**FLAMMABLE LIMITS:** Not Available to Not Available**VAPOR PRESSURE:** Not Available**VAPOR DENSITY:** Not Available**BOILING POINT:** Not Available**FREEZING POINT:** Not Available**MELTING POINT:** Not Available**POUR POINT:** Not Available**THERMAL DECOMPOSITION:** Not Available**SOLUBILITY IN WATER:** Miscible**EVAPORATION RATE:** Not Available**DENSITY:** ~ 9.72**SPECIFIC GRAVITY:** 1.15 - 1.17 g/mL**VISCOSITY:** Not Available**OXIDIZING PROPERTIES:** No components in this product are classified as oxidizers.**COMMENTS:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.**10. STABILITY AND REACTIVITY****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**STABILITY:** Stable under normal use and storage conditions.**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** Active ingredient decomposes at elevated temperatures.**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide.**INCOMPATIBLE MATERIALS:** Avoid contact with strong acids, alkalis, organic materials, oils, greases, alcohols, acetic acid or any easily oxidizable materials.**11. TOXICOLOGICAL INFORMATION****ACUTE****DERMAL LD<sub>50</sub>:** > 5000 mg/kg**ORAL LD<sub>50</sub>:** > 5000 mg/kg**Notes:** Low toxicity if swallowed.**INHALATION LC<sub>50</sub>:** > 3.0 mg/L (Rat)(4-Hour)**Notes:** Low toxicity if inhaled.**EYE EFFECTS:** May cause eye irritation.**SKIN EFFECTS:** May cause mild skin irritation.**CHRONIC:**

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Based on available data, repeated exposures are not expected to cause significant adverse effects except at very high aerosol concentrations. Repeated excessive aerosol exposures may cause respiratory tract irritation and even death.

Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.

For the minor component(s): In animals, effects have been reported on the following organs: Liver. Kidney.

Observations in animals include: Lethargy.

**CARCINOGENICITY**

Chemical Name	IARC Status
2-propanol	3

**NTP:** Not Listed

**OSHA:** Not Listed

**REPRODUCTIVE EFFECTS:** In animal studies, active ingredient did not interfere with reproduction.

**TERATOGENIC EFFECTS:** For similar active ingredient(s). Clopyralid caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure. For the minor component(s): Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

**MUTAGENICITY:**

For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**GENERAL COMMENTS:** Toxicological information is based off of similar materials.

**12. ECOLOGICAL INFORMATION****AQUATIC TOXICITY (ACUTE)**

**96-HOUR LC<sub>50</sub>:** > 99.9 mg/L (Rainbow Trout)

**48-HOUR EC<sub>50</sub>:** > 99 mg/L (Daphnia Magna)

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

**PRODUCT DISPOSAL:** Improper disposal of excess waste is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your Local Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** <119 Gallons: Not regulated by DOT

>119 Gallons: NA 1993 Combustible liquid, n.o.s. (Isopropanol), Comb Liq., III

**TECHNICAL NAME:** Isopropanol

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1993

**PACKING GROUP:** III

**OTHER SHIPPING INFORMATION:**

**49CFR 173.150** Limited quantities of flammable liquids (Class 3) and combustible liquids are exempted from labeling requirements, unless the material is offered for transportation or transported by aircraft, and are exempted from the specification packaging

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requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also conform to applicable requirements of §173.27 of this part (*e.g.*, authorized materials, inner packaging quantity limits and closure securement) and only hazardous material authorized aboard passenger-carrying aircraft may be transported as a limited quantity. A limited quantity package that conforms to the provisions of this section is not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or is offered for transportation and transported by aircraft or vessel, and is eligible for the exceptions provided in §173.156 of this part. In addition, shipments of limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight.

**ROAD AND RAIL (ADR/RID):** Not Available

**AIR (ICAO/IATA)**

**SHIPPING NAME:** FLAMMABLE LIQUID N.O.S. (Isopropanol)

**UN/NA NUMBER:** 1993

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** III

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** FLAMMABLE LIQUID N.O.S. (Isopropanol)

**UN/NA NUMBER:** 1993

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** III

**MARINE POLLUTANT #1:** None

## 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Isopropanol ~5% CAS #67-63-0

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
2-propanol	~ 5	67-63-0

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Not Listed

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
2-propanol	67-63-0

**TSCA STATUS:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**CALIFORNIA PROPOSITION 65:** Not Listed

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION** Causes moderate eye irritation. Harmful if absorbed through skin.

Avoid contact with eyes, skin, or clothing.

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** Updated with new information pertaining to the product.

**PREPARED BY:** Lighthouse Product Services LLC

**MANUFACTURER DISCLAIMER:** *This information above is believed to be accurate and represents the best information currently*

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*available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Manufacturer, Supplier or Distributor be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, how so ever arising, even if company has been advised of the possibility of such damages.*