



Revision date 28-Jul-2023

Revision Number 1

1. Identification				
Product identifier				
Product Name	Spur 360 Herbicide			
Other means of identification				
Product Code(s)	34501			
Synonyms	None			
Registration Number(s)	34501			
Recommended use of the chemical and restrictions on use				
Recommended use	Herbicide			
Restrictions on use Follow label instructions				
Details of the supplier of the safety data sheet				
Initial supplier identifier ALBAUGH LLC 1525 NE 36th St, Ankeny, IA 50021 USA				

Emergency telephone number

Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

1/2 CLITA TOXICITY - INDOLOTION (1)LICTE(1/1/LICTE)	Category 4
Flammable liquids	Category 3

Label elements

Warning

Hazard statements

Harmful if inhaled Flammable liquid and vapor



Precautionary Statements - Prevention

Avoid breathing dust, fume, gas, mist, vapors and spray Use only outdoors or in a well-ventilated area Ground and bond container and receiving equipment Use non-sparking tools Take action to prevent static discharges Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Use explosion-proof electrical, ventilating, lighting and .? equipment Wear protective gloves, protective clothing, eye protection and face protection

Precautionary Statements - Response

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower] Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell **Fire** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

May be harmful if swallowed.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%		Date HMIRA filed and date exemption granted (if applicable)
Clopyralid MEA Salt	57754-85-5	39.68-42.12	-	
Isopropyl alcohol	67-63-0	4.75-5.25	-	
Ethylenediaminetetraacetic acid	64-02-8	0.18-0.22	-	
Other Ingredients	PROPRIETAR Y	>52.0	-	

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.		
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.		
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
5. Fire-fighting measures			
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.		

Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	
Explosion data		

Sensitivity to mechanical impact None.

Sensitivity to static discharge	Yes.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See **Personal precautions** section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapors or mists.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,
sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static
electricity). Keep in properly labeled containers. Do not store near combustible materials.
Keep in an area equipped with sprinklers. Store in accordance with the particular national
regulations. Store in accordance with local regulations. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits				
Chemical name	Alberta	British Columbia	Ontario	Quebec
Isopropyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 400 ppm
67-63-0	TWA: 492 mg/m ³	STEL: 400 ppm	STEL: 400 ppm	TWA: 985 mg/m ³
	STEL: 400 ppm			STEL: 500 ppm
	STEL: 984 ma/m ³			STEL: 1230 mg/m ³

Appropriate engineering controls

Engineering controls Showers **Evewash stations** Ventilation systems. Individual protection measures, such as personal protective equipment Eye/face protection Tight sealing safety goggles. Hand protection Wear suitable gloves. Impervious gloves. Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. **Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties				
Physical state	Liquid			
Appearance	No information available			
Color	Amber brown			
Odor	sweet			
Odor threshold	No information available			
Property	Values	Remarks • Method		
рН	6.9 - 7.9	None known		
Melting point / freezing point	No data available	None known		
Initial boiling point and boiling range		None known		
Flash point	454 °C / °F	None known		
Evaporation rate	No data available	None known		
Flammability	No data available	None known		
Flammability Limit in Air		None known		
Upper flammability or explosive	No data available			
limits				
Lower flammability or explosive	No data available			
limits				
Vapor pressure	1.33 mPa (pure, 24°C) (Clopyralid acid	l)None known		
Relative vapor density	No data available	None known		
Relative density	No data available	None known		
Water solubility	No data available	None known		
Solubility in other solvents	No data available	None known		
Partition coefficient	log Pow = -1.81 (pH 5), -2.63 (pH 7),	None known		
	-2.55 (pH 9), 1.07 (unionized, 25°C)			
	(Clopyralid acid)			
Autoignition temperature	No data available	None known		
Decomposition temperature		None known		
Kinematic viscosity	7.27 cSt (20°C)	None known		
Dynamic viscosity	No data available	None known		
Other information				
Explosive properties	No information available.			
Oxidizing properties	No information available.			
Softening point	No information available			
Molecular weight	No information available			
VOC content	No information available			
Liquid Density	1.15-1.19*			
Bulk density	No information available			
	does not necessarily represent that of a spe	ecific batch		

10. Stability and reactivity

Reactivity

No information available. Chemical stability

Stable under normal conditions. Possibility of hazardous reactions

None under normal processing. Conditions to avoid

Heat, flames and sparks. Excessive heat. Incompatible materials

None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (inhalation-vapor)

344.10 mg/l

Oral LD50	> 5,000 mg/kg
Dermal LD50	> 2,000 mg/kg
Inhalation LC50	> 2.12 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Clopyralid MEA Salt 57754-85-5	= 2675 mg/kg (Rat)	-	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat)6 h
Ethylenediaminetetraacetic acid 64-02-8	= 1658 mg/kg (Rat) = 10 g/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Mildly irritating.
Respiratory or skin sensitization	Did not cause sensitization on laboratory animals.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	-	-
I a manual				

Legend

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans Reproductive toxicity No information available.

Aspiration hazard	No information available.
Target organ effects	Respiratory system, Eyes, Skin.
STOT - repeated exposure	No information available.
STOT - single exposure	No information available.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl alcohol 67-63-0	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)
Ethylenediaminetetraacet ic acid 64-02-8	EC50: =1.01mg/L (72h, Desmodesmus subspicatus)	LC50: =41mg/L (96h, Lepomis macrochirus) LC50: =59.8mg/L (96h, Pimephales promelas)	-	EC50: =610mg/L (24h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Isopropyl alcohol	0.05	
67-63-0		

Other adverse effects

No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. Transport information

TDG

UN number or ID number	1993
UN proper shipping name	Flammable liquid, n.o.s.
Transport hazard class(es)	3

Packing groupIIIDescriptionUN1993 Flammable liqu

UN1993 Flammable liquid, n.o.s., (Isopropanol) 3, III

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

16. Other information

NFPA	Health hazards 2	Flammability 2	Instability 0	0	Special hazards -
HMIS	Health hazards 2	Flammability 2	Physical hazards		Personal protection X
Chronic Hazard Star Lege	nd *= Chronic	Health Hazard			

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section	8: Exposure controls/personal protection		
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta	erences and sources for data used to comp Substances and Disease Registry (ATSDR) al Protection Agency ChemView Database afety Authority (EFSA) tal Protection Agency) suideline Level(s) (AEGL(s)) al Protection Agency Federal Insecticide, Fung al Protection Agency High Production Volume burnal	jicide, and Rodentici	ide Act

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date 28-Jul-2023

Revision Note Disclaimer No information available.

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End of Safety Data Sheet