



Revision date 18-Jul-2024

**Revision Number** 1

1. Identification	
Product identifier	
Product Name	InStep Herbicide
Other means of identification	
Product Code(s)	33956
Synonyms	None
Registration Number(s)	33956
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	

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

• Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

• Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

## 2. Hazard(s) identification

Classification	
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Aspiration hazard	Category 1
Flammable liquids	Category 4

#### Label elements

#### Danger

#### Hazard statements

Suspected of causing cancer May damage fertility or the unborn child May be fatal if swallowed and enters airways May be harmful if swallowed or in contact with skin Very toxic to aquatic life with long lasting effects Combustible liquid



### **Precautionary Statements - Prevention**

Obtain special instructions before use Wear protective gloves, protective clothing, eye protection and face protection Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Avoid release to the environment

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention **Skin** Get immediate medical advice and attention **Ingestion** IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting **Fire** Use Suitable extinguishing media to extinguish **Spill** Collect spillage

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place

#### Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

#### Other information

May be harmful if swallowed. May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

#### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No	Weight-%		Date HMIRA filed and date exemption granted
			registry number	(if applicable)
			(HMIRA registry #)	
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	<70.00	-	
Carfentrazone-ethyl	128639-02-1	24.00	-	
NMP (N-methyl-2-pyrrolidone)	872-50-4	<3.00	-	
Calcium alkyl benzene sulphonate /isobutanol	26264-06-2	<3.00	-	

#### 4. First-aid measures

#### **Description of first aid measures**

<u></u>	
General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation Eye contact	Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. 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. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Ingestion	Call a physician immediately. Get immediate medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Prolonged contact may cause redness and irritation.
Indication of any immediate medic	al attention and special treatment needed
Note to physicians	Treat symptomatically. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
5. Fire-fighting measures	
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, for or regular foam.

	spray, fog or regular foam.
Large Fire	Move containers from fire area if you can do it without risk.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Combustible material. Thermal decomposition can lead to release of irritating gases and vapors.
Explosion data Sensitivity to mechanical impac	t 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

**Personal precautions** 

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and

	upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8. Ventilate the area.
Methods and material for containme	nt and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take up with sand, earth or other non-combustible 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. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes
	clothing and shoes.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep 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. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

#### 8. Exposure controls/personal protection

# Control parameters

Exposure Linits				
Chemical name	Alberta	British Columbia	Ontario	Quebec
NMP			TWA: 400 mg/m <sup>3</sup>	
(N-methyl-2-pyrrolidone)				
872-50-4				

#### Appropriate engineering controls

Engineering controls	Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. Butyl rubber.
Skin and body protection	Wear suitable protective clothing. Protective shoes or 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. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and chemical properties

Information on basic physical and o		
Physical state	Liquid	
Appearance	Liquid	
Color	brown orange	
Odor	Aromatic	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH	$\frac{1}{5.0} - 7.0$	@ 1%
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang		None known
Flash point	66 °C / 150.8 °F	CC (closed cup)
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	No data available	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	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	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	0.98-1.0 g/mL*	
Bulk density	No information available	
*Listed density is an approximate value and	d does not necessarily represent that of a sp	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. Storage near to reactive materials. Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Nitrogen oxides (NOx). Carbon oxides. Hydrogen chloride. Hydrogen fluoride.

### 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes mild skin irritation. May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.
vmptoms related to the physic	al, chemical and toxicological characteristics

#### Symptoms related to the physical, chemical and toxicological characteristics

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Prolonged contact may cause Symptoms redness and irritation.

Acute toxicity

Numerical measures of toxicity

Oral LD50	4077	mg/kg
Dermal LD50	> 40	000 mg/kg
Inhalation LC50	> 6.	31 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	> 5000 mg/kg (Rat)	>2 mL/kg (Rabbit)	> 590 mg/m³(Rat)4 h
Carfentrazone-ethyl 128639-02-1	= 5143 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 5.09 mg/L (Rat)4 h
NMP (N-methyl-2-pyrrolidone) 872-50-4	= 3914 mg/kg (Rat)	= 8 g/kg (Rabbit)	> 5.1 mg/L (Rat)4 h
Calcium alkyl benzene sulphonate /isobutanol 26264-06-2	1086 - 1980 mg/kg (Rat) = 4 g/kg (Rat)	-	-

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

Skin corrosion/irritation

Mildly irritating. Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation	Mildly irritating.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	May be fatal if swallowed and enters airways.

## 12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	EC50: =2.5mg/L (72h, Skeletonema costatum)	LC50: =19mg/L (96h, Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =1740mg/L (96h, Lepomis macrochirus) LC50: =45mg/L (96h, Pimephales promelas) LC50: =41mg/L (96h,	-	EC50: =0.95mg/L (48h, Daphnia magna)
NMP (N-methyl-2-pyrrolidone) 872-50-4	EC50: >500mg/L (72h, Desmodesmus subspicatus)	Pimephales promelas) LC50: =832mg/L (96h, Lepomis macrochirus) LC50: =1072mg/L (96h, Pimephales promelas) LC50: =1400mg/L (96h, Poecilia reticulata) LC50: =4000mg/L (96h, Leuciscus idus)	-	EC50: =4897mg/L (48h, Daphnia magna)
Calcium alkyl benzene sulphonate /isobutanol 26264-06-2	-	LC50: =10.8mg/L (96h, Oncorhynchus mykiss)	-	-

#### Persistence and degradability

No information available. No information available.

#### Bioaccumulation

Component Information

Chemical name	Partition coefficient
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	6.1
NMP (N-methyl-2-pyrrolidone) 872-50-4	-0.46

Other adverse effects

No information available.

## 13. Disposal considerations

#### **Disposal methods**

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations. Do not reuse empty containers.

## 14. Transport information

TDG	
Notes	NOT REGULATED PER TDG EXEMPTION 1.45.1 FOR ROAD OR RAIL
UN number or ID number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Special Provisions	16, 99
Marine pollutant name	Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl.
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl), 9, III

#### <u>IATA</u>

UN number or ID number Transport hazard class(es) Packing group Technical Name Description Special Provisions ERG Code	UN3082 9 III Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl UN3082, Environmentally hazardous substance, liquid, n.o.s., (Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl), 9, III A97, A158, A197 9L
ICAO (air)	UN3082
UN number or ID number	9
Transport hazard class(es)	III
Packing group	UN3082, Environmentally hazardous substance, liquid, n.o.s., (Solvent Naphtha
Description	(Petroleum), Heavy Aromatic, Carfentrazone-ethyl), 9, III
Special Provisions	A97, A158, A197, A215
IMDG	UN3082
UN number or ID number	9
Transport hazard class(es)	III
Packing group	F-A, S-F
EmS-No	274, 335, 969
Special Provisions	P
Marine pollutant	UN3082, Environmentally hazardous substance, liquid, n.o.s., (Solvent Naphtha
Description	(Petroleum), Heavy Aromatic, Carfentrazone-ethyl), 9, 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 Subs	tances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic	Substances List/Non-Domestic Substances List
FINECS/FLINCS - European Inv	entory of Existing Chemical Substances/European List of Notified Chemical Substances

**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 Special hazards -HMIS Health hazards 2\* Flammability 2 Physical hazards 0 Personal protection X 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) Ceilina Maximum limit value Skin designation Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal 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** 18-Jul-2024 **Revision Note** No information available. Disclaimer

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End of Safety Data Sheet