

SAFETY DATA SHEET

Revision date 05-Sep-2023 Revision Number 2

1. Identification

Product identifier

Product Name InStep Herbicide

Other means of identification

Product Code(s) 33956

UN number or ID number UN3082

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.

Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
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

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 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.

and easy to do. Continue rinsing. If irritation persists or eye and/or skin remains bonded:

Eye contactRinse 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

Get medical advice/attention.

Skin contactWash 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 effects, both acute and delayed

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

redness and irritation.

Indication of any immediate medical 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, 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 Cor

chemical

Combustible material. Thermal decomposition can lead to release of irritating gases and

vapors.

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

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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.

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. 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.

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 Limits

Chemical name	Alberta	British Columbia	Ontario	Quebec
NMP			TWA: 400 mg/m ³	
(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, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves. Butyl rubber.

Wear suitable protective clothing. Protective shoes or boots. Skin and body protection

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.

Do not eat, drink or smoke when using this product. Contaminated work clothing should not General hygiene considerations

> 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 chemical properties

Physical state Liquid **Appearance** Liquid Color brown orange Odor Aromatic

No information available **Odor threshold**

Property Values Remarks • Method

5.0 - 7.0 @ 1% pН Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known 66 °C / 150.8 Flash point CC (closed cup) None known **Evaporation rate** No data available **Flammability** No data available None known Flammability Limit in Air

No data available

None known

Upper flammability or explosive

limits

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure 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 does not necessarily represent that of a specific batch

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

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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.

Symptoms related to the physical, chemical and toxicological characteristics

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

redness and irritation.

Acute toxicity

Numerical measures of toxicity

 Oral LD50
 4077 mg/kg

 Dermal LD50
 > 4000 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

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

Persistence and degradability No information available.

Bioaccumulation No information available.

Component Information

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

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

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

DOT

UN number or ID number UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing group III

Special Provisions 8, 146, 173, 335, 441, IB3, T4, TP1, TP29

DOT Marine Pollutant

Marine pollutant Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl

DescriptionUN3082, Environmentally hazardous substance, liquid, n.o.s. (Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl), 9, III, Marine pollutant

IATA

UN number or ID number UN3082
Transport hazard class(es) 9

Packing group III

Technical Name Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl

Special Provisions A97, A158, A197

ERG Code 9L

ICAO (air)

UN number or ID number UN3082
Transport hazard class(es) 9
Packing group III

Special Provisions A97, A158, A197, A215

IMDG

UN number or ID number
Transport hazard class(es)
Packing group
EmS-No
Special Provisions
UN3082
9
III
F-A, S-F
274, 335, 969

Marine pollutant P

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. 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

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 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)

Ceiling 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 05-Sep-2023

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet