# SAFETY DATA SHEET

Revision date 10-Aug-2021

A	lbaugh
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#### Revision Number 3

1. Identification		
Product identifier		
Product Name	Crossroad	
Other means of identification		
Product Code(s)	42750-124	
UN number or ID number	NA1993	
Synonyms	None	
Registration Number(s)	42750-124	
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		

# Company Address

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

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

# 2. Hazard(s) identification

# **Classification**

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Aspiration hazard	Category 1
Flammable liquids	Category 4

# Hazards not otherwise classified (HNOC)

Not applicable

# Label elements Danger Hazard statements Harmful if swallowed Harmful if inhaled Causes skin irritation May cause an allergic skin reaction May be fatal if swallowed and enters airways Combustible liquid Image: Compute the system of the sys

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Keep away from flames and hot surfaces. - No smoking Wear protective gloves/eye protection/face protection

# **Precautionary Statements - Response**

Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a doctor if you feel unwell IF SWALLOWED: Immediately call a doctor Do NOT induce vomiting Rinse mouth In case of fire: Use CO2, dry chemical, or foam to extinguish

# **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Other information

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

# 42750-124 - Crossroad

Chemical name	CAS No	Weight-%	Active Ingredient
Solvent Naphtha (Petroleum), Heavy	64742-94-5	36.71-38.99	
Aromatic			
2,4-D Butoxyethyl ester	1929-73-3	33.37-35.43	Х
Triclopyr BEE	64700-56-7	15.68-17.32	Х
Other Ingredients	PROPRIETARY	>9.0	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.	
Inhalation	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. 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. Delayed pulmonary edema may occur.	
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. Remove contact lenses, if present and easy to do. Continue rinsing.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate 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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.	

5. Fire-fighting measures	
Suitable Extinguishing Media Large Fire	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. 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	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization

	by skin contact.
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	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.		
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.		
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
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## 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. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.	
Conditions for safe storage, including any incompatibilities		

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,<br/>sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static<br/>electricity). Keep in properly labeled containers. Store in accordance with the particular<br/>national regulations. Store in accordance with local regulations. Keep out of the reach of<br/>children. Store locked up. Store away from other materials.

# 8. Exposure controls/personal protection

# Control parameters

**Exposure Limits** 

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

# **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch 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.
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. Wear suitable gloves and eye/face protection.

# 9. Physical and chemical properties

Information on basic physical and		
Physical state	Liquid	
Appearance	crystalline	
Color	brown	
Odor	No information available	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	3.1 4.1	
pH (as aqueous solution)		
Melting point / freezing point	No data available	
Initial boiling point and boiling range	<b>je</b> No data available	
Flash point	60.7	
Evaporation rate	No data available	
Flammability	No data available	
Flammability Limit in Air		
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	0.2 mPa (25°C) (Triclopyr Acid) 1.86 x	
	10-2 mPa (25°C) (2,4-D Acid)	
Relative vapor density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient		

	-0.96 (pH 9) (Triclopyr Acid) log Pow =
	2.58 – 2.83 (pH 1), 0.04 – 0.33 (pH 5),
	-0.75 (pH 7) (2,4-D Acid)
Autoignition temperature	No data available
Decomposition temperature	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
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	1.10 – 1.13 g/ml (9.2 – 9.4 lb/gl)*
Bulk density	No information available
*Listed density is an approximate value an	d does not necessarily represent that of a specific 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	Strong acids. Strong bases. Strong oxidizing agents.

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. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.
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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes.
Acute toxicity	
Numerical measures of toxicity	

Oral LD50 Dermal LD50 Inhalation LC50 Component Information	1,000 mg/kg > 5,000 mg > 4.1 mg/l				
Chemical name	Oral LD50	) De	rmal 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	
2,4-D Butoxyethyl ester 1929-73-3	= 831 mg/kg(		/kg (Rabbit)> 2 g (Rabbit)	-	
Delayed and immediate effects	as well as chronic	effects from short and	long-term exposure		
Skin corrosion/irritation	Classification b	based on data available t	for ingredients. Irritating	to skin.	
Serious eye damage/eye irritat	ion Classification r	not possible.			
Respiratory or skin sensitization	on May cause ser	nsitization by skin contac	t.		
Germ cell mutagenicity	No information	available.			
Carcinogenicity The table below indicates wheth	No information er each agency has l		a carcinogen.		
Chemical name	ACGIH	IARC	NTP	OSHA	
2,4-D Butoxyethyl ester 1929-73-3	-	Group 2B	-	-	
	Legend IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans				
Reproductive toxicity	No information available.				
STOT - single exposure	No information	available.			
STOT - single exposure STOT - repeated exposure	No information				
	No information		rways.		
STOT - repeated exposure	No information	available. swallowed and enters ai	rways.		

# 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, Pimephales promelas)	-	EC50: =0.95mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

**Bioaccumulation** 

There is no data for this product.

# **Component Information**

Chemical name	Partition coefficient
Solvent Naphtha (Petroleum), Heavy Aromatic	6.1
64742-94-5	

Other adverse effects

No information available.

# 13. Disposal considerations

# **Disposal methods**

14. Transport information	
US EPA Waste Number	U240
Contaminated packaging	Do not reuse empty containers.
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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# DOT

Notes	Containers < 34 gallons Not Regulated by DOT Containers > 34 gallons NA1993, Combustible Liquid, N.O.S., (contains petroleum solvent), PG III, RQ (2,4-D Ester)
UN number or ID number	NA1993
Proper shipping name	Combustible liquid, n.o.s.
Transport hazard class(es)	Combustible liquid
Packing group	
Special Provisions	IB3, T1,TP1, 148
DOT Marine Pollutant	
Marine pollutant	Reaction product of (Z)-octadec-9- enoic acid, zinc selenide, cadmium selenide and zinc selenide sulfide
Description	NA1993, Combustible liquid, n.o.s. (Reaction product of (Z)-octadec-9- enoic acid, zinc selenide, cadmium selenide and zinc selenide sulfide), III, Marine pollutant
IATA	Not regulated
TDG	Not regulated
ICAO (air)	Not regulated
IMDG_	Not regulated

15. Regulatory information	
U.S. EPA Label Information	
EPA Pesticide Registration Number	42750-124
EPA Pesticide Label	CAUTION. Harmful if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.
International Inventories	
TSCA	Does not comply

DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AIIC	Does not comply

#### 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

#### US Federal Regulations

## <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
2,4-D Butoxyethyl ester - 1929-73-3	0.1
Triclopyr BEE - 64700-56-7	1.0

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2,4-D Butoxyethyl ester 1929-73-3	100 lb	-	-	Х

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
2,4-D Butoxyethyl ester	100 lb	-
1929-73-3		

# US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2,4-D Butoxyethyl ester 1929-73-3	Х	Х	Х
Triclopyr BEE 64700-56-7	Х	-	Х

16. Other information						
NFPA <u>HMIS</u> Chronic Hazard Star Le	Health hazards 2 Health hazards 2 * egend *= Chronic	Flammability Flammability Health Hazard		Instability 0 Physical hazards 0	Special hazards - Personal protection X	
Key or legend to abbreviations and acronyms used in the safety data sheetLegend Section 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELSTEL (Short Term Exposure Limit)						
Ceiling N	laximum limit value	*		Skin designatio	on	
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 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 ChemID Plus (NLM CIP) National Library of Medicine's ChemID Plus (NLM CIP) National Cassification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization						
Revision date Revision Note <u>Disclaimer</u>	10-Aug-20 No informa	21 ation available.				

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.

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**End of Safety Data Sheet**