# SAFETY DATA SHEET

Revision date 09-Aug-2021

A	Ibaugh
T	Your Alternative <sup>™</sup>

**Revision Number** 1

# 1. Identification Product identifier **Product Name** Commando Other means of identification Product Code(s) 42750-92 UN/ID no. UN3082 Synonyms None **Registration Number(s)** 42750-92 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 50211

# 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)

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 Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide.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**

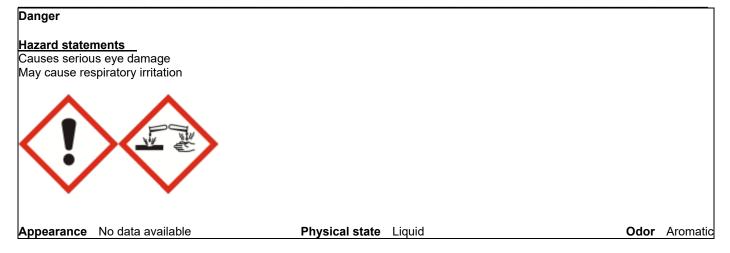
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

# Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

# 42750-92 - Commando



# **Precautionary Statements - Prevention**

Wear eye protection/ face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

# **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

# Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

# Unknown acute toxicity

Other information Harmful to aquatic life with long lasting effects.

# 3. Composition/information on ingredients

### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Active Ingredient
2,4-D TIPA Salt	32341-80-3	37.83-40.17	Х
Clopyralid MEA Salt	57754-85-5	4.85-5.35	Х
Other Ingredients	PROPRIETARY	>55.00	

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

# 4. First-aid measures

# Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.	
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# 5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 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	No data available.	
Explosion data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	None.	
Special protective equipment 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	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas.
Other information	Refer to protective measures listed in Sections 7 and 8.

# Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

# 7. Handling and storage Precautions for safe handling Advice on safe handling 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. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

# 8. Exposure controls/personal protection

# Control parameters

Exposure Limits

### **Biological occupational exposure limits**

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

Keep out of the reach of children.

### Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective 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	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	No data available	
Color	Amber	
Odor	Aromatic	
Odor threshold	No data available	
Property	Values	Remarks • Method
pH	4.5 5.5	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	> 100	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits		
Vapor pressure	1.33 mPa (pure, 24°C) (Clopyralid)	
	1.86 x 10-2 mPa (25°C) (2,4-D Acid)	
Vapor density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	Emulsifies	
Partition coefficient	log Pow = -1.81 (pH5), -2.63 (pH7),	
	-2.55 (pH9), 1.07 (unionized, 25°C)	
	(Clopyralid) 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	20.8 cSt (20°C); 9.2 cSt (40°C)	
Dynamic viscosity	No data available	
Other information		
Explosive properties	No data available	
Oxidizing properties	No data available	
Softening point	No data available	
Molecular weight	No data available	
VOC Content (%)	No data available	
Liquid Density	1.14-1.18*	
Bulk density	No data available	
*Listed density is an approximate value an	d does not necessarily represent that of a spe	ecific batch

# 10. Stability and reactivity

Reactivity	No data available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products None known based on information supplied.	

# Information on likely routes of exposure

### Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

# Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Redness. Burning. May cause blindness.
----------	--

# Acute toxicity

# Numerical measures of toxicity

# The following values are calculated based on chapter 3.1 of the GHS document

# Unknown acute toxicity

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Clopyralid MEA Salt	= 2675 mg/kg (Rat)	-	-
57754-85-5			

# 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	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.		
Respiratory or skin sensitization	Did not cause sensitization on laboratory animals.		
Germ cell mutagenicity	No data available.		
Carcinogenicity       No data available.         The table below indicates whether each agency has listed any ingredient as a carcinogen.         Legend         IARC (International Agency for Research on Cancer)         Group 2B - Possibly Carcinogenic to Humans         Group 2B*: Possibly Carcinogenic to Humans. Listed as Category 2B by the International Agency for Research on Cancer (IARC) but expert opinion based on weight of evidence is that classification as a carcinogen is not warranted.         OSHA (Occupational Safety and Health Administration of the US Department of Labor)         X - Present			
Reproductive toxicity	No data available.		
STOT - single exposure	May cause respiratory irritation.		

- **STOT repeated exposure** No data available.

Target organ effects	liver, kidney, Respiratory system, Eyes, Skin, Central nervous system.		
Aspiration hazard	No data available.		
Other adverse effects	No data available.		
Interactive effects	No data available.		

# 12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	No data available.
Bioaccumulation	There is no data for this product.
Component Information	
Other adverse effects	No data available.

# 13. Disposal considerations

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	U057 U240

# 14. Transport information

DOT_ Description	Containers < 30 gallons	Not regulated by DOT
	Containers <u>&gt;</u> 30 gallons N.O.S., 9, PG III, RQ (2,4-D	UN3082, Environmentally Hazardous Substances, Liquid, Salt)

15. Regulatory information	
U.S. EPA Label Information	
EPA Pesticide Registration Number	42750-92
EPA Pesticide Label	DANGER! Corrosive. causes Irreversible Eye Damage. Harmful If Absorbed Through Skin or Inhaled. Harmful if Swallowed.
International Inventories	
TSCA DSL/NDSL EINECS/ELINCS	Does not comply Does not comply Does not comply

# 42750-92 - Commando

ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	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

AICS - Australian Inventory of Chemical Substances

# US Federal Regulations

# **SARA 313**

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.

# 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).

# 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).

# 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
Trade secret	-	-	Х
2,4-D	Х	Х	Х

# 16. Other information

<u>NFPA</u>	Health hazards	3	Flammability	1	Instability 0		Physical and chemical properties -
HMIS Chronic Hazard Star Legend	Health hazards	-	Flammability lealth Hazard	1	Physical hazards	0	Personal protection X

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

<b>Legend</b> TWA	Section 8: EXPOSURE CO TWA (time-weight		PROTECTION STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit val	ue	*	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	09-Aug-2021		

Revision date09-Aug-2021Revision NoteNo data available.DisclaimerNo

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.

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

End of Safety Data Sheet