



Revision date 21-Aug-2020

Revision Number 1

1. Identification	
Product identifier	
Product Name	Clethodim 240
Other means of identification	
Product Code(s)	32334
UN/ID no.	NA1193***
Synonyms	None
EPA Registration Number(s)	PCP Reg. No. 32334
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 Ankeny, IA 500211	
Emergency telephone number	
No information available	

# 2. Hazard(s) identification

### **Classification**

Skin sensitization	Category 1
Aspiration hazard	Category 1
Flammable liquids	Category 4

### Label elements

### Danger

### Hazard statements

May cause an allergic skin reaction May be fatal if swallowed and enters airways Combustible liquid



### **Precautionary Statements - Prevention**

Avoid breathing dust, fume, gas, mist, vapors and spray Contaminated work clothing should not be allowed out of the workplace Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Wear protective gloves, protective clothing, eye protection and face protection

### **Precautionary Statements - Response**

Specific treatment (see .? on this label) Skin IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice and attention Take off contaminated clothing and wash it before reuse Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting Fire In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

### **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	Trade secret	20 - 30%	-	
Clethodim	99129-21-2	24.3-25.8	-	

# 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 Eye contact	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. Delayed pulmonary edema may occur. 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	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/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.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.
Indication of any immediate medic	al 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	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	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 impact None.		
Sensitivity to static discharge	Yes.	
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	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.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for conta	ainment 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

#### 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<br/>heat, 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. Store locked up. Keep out<br/>of the reach of children. Store away from other materials.

# 8. Exposure controls/personal protection

<u>Control parameters</u> Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
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	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 basis abusis of and		
Information on basic physical and Physical state	Liquid	
Appearance	Elquid	
Color	Amber	
Odor	Aromatic	
Odor threshold	No data available	
Property	Values	Remarks • Method
pH	3.8 - 4.8	@ 20 °C
Melting point / freezing point	No data available	-
Boiling point / boiling range	No data available	
Flash point	65 °C / 149 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No data available	
Flammability (solid, gas)	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	< 1x10-2	
Vapor density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature		
Kinematic viscosity	3.33 mm²/s	@ 20 °C
Dynamic viscosity	No data available	
Other information		
Other information	No information available.	
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Softening point Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	0.935-0.975	
Bulk density	No information available	
Bain donoty		

# 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. 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**

severe lung damage. May cause pulmonary edema. Pulmonary edema can be y cause irritation of respiratory tract.
test data for the substance or mixture is not available. May cause irritation.
se sensitization by skin contact. Specific test data for the substance or mixture is able. Repeated or prolonged skin contact may cause allergic reactions with ble persons. (based on components). Repeated exposure may cause skin dryness ng. May be harmful in contact with skin.
test data for the substance or mixture is not available. Potential for aspiration if ed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema umonitis. May be fatal if swallowed and enters airways.
and toxicological characteristics

# Syn

Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Symptoms

### Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral)	2,244.30 mg/kg	
ATEmix (dermal)	2,760.90 mg/kg	

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent Naphtha (Petroleum), Heavy Aromatic	> 5000 mg/kg (Rat)	>2 mL/kg (Rabbit)	>590 mg/m <sup>3</sup> (Rat)4 h
Clethodim 99129-21-2	= 1360 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 3.25 mg/L (Rat)4 h

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

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity

No information available. No information available. May cause sensitization by skin contact. No information available.

Carcinogenicity	No information available.
Reproductive toxicity	No information available.
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,		
		Oncorhynchus mykiss)		
		LC50: =1740mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =45mg/L (96h,		
		Pimephales promelas)		
		LC50: =41mg/L (96h,		
		Pimephales promelas)		

Persistence and degradability
Bioaccumulation

No information available. There is no data for this product.

### **Component Information**

Chemical name	Partition coefficient
Solvent Naphtha (Petroleum), Heavy Aromatic	6.1

Other adverse effects

No information available.

# 13. Disposal considerations

#### Waste treatment methods

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.

# 14. Transport information

TDG	Not regulated			
<u>DOT</u> Notes UN/ID no. Reportable Quantity (RQ)	Regulated*** Containers > 119 gallons – NA1193, Combustible Liquid, N.O.S. (contains petroleum distillates, naphthalene). PG III, RQ (naphthalene)*** NA1193*** 100 lb Naphtalene (180 gallons of product)***			
<u>MEX</u>	Not regulated			
ICAO (air)	Not regulated			

	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR N	Not regulated
ADN N	Not regulated

# 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.
AICS	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

AICS - Australian Inventory of Chemical Substances

16. Other information					
NFPA	Health hazards 2	Flammability	2	Instability 0	Physical and chemical properties -
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				
TWA Ceiling	TWA (time-weighted averag Maximum limit value	ge) ST	EL	STEL (Short Term Skin designation	Exposure Limit)
-	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					
	Food Safety Authority (EFSA)				
EPA (Environmental Protection Agency)					
Acute Exposure Guideline Level(s) (AEGL(s))					
U.S. Envi	U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act				

# 32334 - Clethodim 240

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**

21-Aug-2020

### **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