



Traxos<sup>®</sup>Two is a combination of separately registered products comprised of TraxosTwo Broadleaf Component and TraxosTwo Grass Component.

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**SECTION 1: PRODUCT INFORMATION**

**Product Identifier:** TRAXOS® TWO BROADLEAF COMPONENT

**Formulation Number:** n/a

**Registration Number:** 31673 (Pest Control Products Act)

**Product Use:** Herbicide. Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

**Syngenta Canada Inc.**  
**140 Research Lane, Research Park**  
**Guelph, ON N1G 4Z3**

**SDS prepared by:** Department of Regulatory & Biological Assessment, Syngenta Canada Inc.

**For further information, contact:** 1-87-SYNGENTA (1-877-964-3682)

**In Case of Emergency, Call: 1-800-327-8633 (FAST MED)**

**SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with UN GHS Version 5.

**Hazard Classification(s):** Acute Toxicity (Oral) – Category 4  
 Aspiration Hazard – Category 1  
 Specific Target Organ Toxicity (STOT) Single Exposure – Category 3

**Hazard Symbol(s):**



**Signal Word:** DANGER

**Hazard Statement(s):** H302 – Harmful if swallowed.  
 H304 – May be fatal if swallowed and enters airway.  
 H335 – May cause respiratory irritation.  
 H336 – May cause drowsiness or dizziness.

**Precautionary Statement(s):**

**Prevention:** P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 – Wash thoroughly after handling.  
 P270 – Do not eat, drink or smoke when using this product.  
 P271 – Use only outdoors or in a well-ventilated area.

**Response:** P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 – Call a POISON CENTER/doctor if you feel unwell.  
 P331 – Do NOT induce vomiting.

**Storage:** P403+P233 – Store in a well-ventilated place. Keep container tightly closed.  
P405 – Store locked up.

**Disposal:** P501 – Dispose of contents/containers to an approved waste disposal plant.

**Other Hazards Which do not Result in GHS Classification:** To avoid risk to human health and the environment, comply with the instructions for use. Combustible liquid.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>Common Name</b>	<b>CAS Number</b>	<b>Average % by weight</b>
2,4-dichlorophenoxyacetic acid, ethylhexyl ester	2,4-D (2-ethylhexyl ester)	1928-43-4	50.99
Solvent naphtha (petroleum), heavy aromatic	Petroleum solvent	64742-94-5	10 - 30
1-methylheptyl-2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate	Fluroxypyr-meptyl (1-methylheptyl ester)	81406-37-3	12.17
1-hexanol	n-hexyl alcohol	111-27-3	< 1.5

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

**SECTION 4: FIRST AID MEASURES**

**IF POISONING IS SUSPECTED, immediately contact the poison information centre, doctor or nearest hospital.** Have the product container, label or Safety Data Sheet with you when calling Syngenta, a poison control centre or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Call the Syngenta Emergency Line [1-800-327-8633 (1-800-FASTMED)], for further information.

**Eye Contact:** Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eyes. Call Syngenta, a poison control centre or doctor for treatment advice. Obtain medical attention immediately if irritation persists.

**Skin Contact:** Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Flush skin with running water for a minimum of 15-20 minutes. Call Syngenta, a poison control centre or doctor for treatment advice.

**Inhalation:** Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call Syngenta, a poison control centre or doctor for treatment advice.

**Ingestion:** If swallowed, immediately contact Syngenta, a poison control centre, doctor or nearest hospital for treatment advice. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occurs, have the victim lean forward with head down to avoid breathing in of vomitus.

**Most Important Symptoms/Effects, Acute and Delayed:**

Low toxicity if swallowed. May result in gastrointestinal damage. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

May cause slight eye irritation. Corneal injury is unlikely.

Skin contact may cause slight irritation with local redness. Skin exposure may aggravate pre-existing skin conditions.

Brief inhalation exposure (minutes) is not likely to cause adverse effects. Inhalation may cause respiratory irritation and/or drowsiness or dizziness. Inhalation of mist may aggravate pre-existing respiratory conditions.

Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness and nausea.

**Indication of Immediate Medical Attention and Special Treatment:**

There is no specific antidote.

Treat symptomatically.

Contains petroleum distillates, vomiting may cause aspiration pneumonia.

If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

Treatment should be based on judgement of the physician in response to reactions of the patient.

**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable (and Unsuitable) Extinguishing Media:** Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread the fire.

**Specific Hazards Arising from the Product:** Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. Generation of gas during decomposition can cause pressure in closed systems. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion. Combustion products may include, and are not limited to: hydrogen chloride, carbon monoxide, carbon dioxide.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water run-off can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use adequate ventilation and equipment and wear clothing as described in Section 8 and/or the product label.

**Environmental Precautions:** Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Spillages or uncontrolled discharges into watercourses must be reported to the appropriate regulatory body.

**Methods and Materials for Containment and Cleaning Up:** Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or seep up material and place into a disposal container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into a compatible disposal container. On soils, small amounts will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling:** Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. Generation of gas during decomposition can cause pressure in closed systems. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**KEEP OUT OF REACH OF CHILDREN.** Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours, dust or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in original container in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Refer to the product label for specific storage recommendations, including minimum storage temperature and freeze/thaw stability. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**CONSULT THE PRODUCT LABEL FOR COMMERCIAL AND/OR ON-FARM APPLICATIONS.**

**Control Parameters:**

Component	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS†
2,4-D	10 mg/m <sup>3</sup>	Not established	10 mg/m <sup>3</sup> TWA**; 10 mg/m <sup>3</sup> TWA (ON/QC)	IARC Group 2B	Not established
Petroleum solvent	Not established	Not established	50 mg/m <sup>3</sup> TWA*; 300 ppm TWA (AB/QC); Use calculation required (BC/ON)	No	Not established
Fluroxypyr-meptyl	Not established	Not established	5 mg/m <sup>3</sup> TWA*	No	Not established
n-hexyl alcohol	Not established	Not established	Not established	No	Yes

- \* Recommended by Manufacturer
- \*\* Recommended by NIOSH
- \*\*\* Syngenta Occupational Exposure Limit (OEL)
- \*\*\*\* Recommended by AIHA (American Industrial Hygiene Association)
- † Material listed in Ingredient Disclosure List under the Hazardous Products Act

**Appropriate Engineering Controls:** If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV (threshold limit value). Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

**Individual Protection Measures:**

**General:** Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

**Ingestion:** Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

**Eyes:** Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Skin:** Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

**Inhalation:** A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH certified respirator with any R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air purifying respirators may not provide adequate protection.



**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Dermal, inhalation, oral.

**Symptoms of Acute Exposure:** Low toxicity if swallowed. May result in gastrointestinal damage. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. May cause slight eye irritation. Corneal injury is unlikely. Skin contact may cause slight irritation with local redness. Skin exposure may aggravate pre-existing skin conditions. Brief inhalation exposure (minutes) is not likely to cause adverse effects. Inhalation may cause respiratory irritation and/or drowsiness or dizziness. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination.

**Potential Health Effects:** Other possible effects of overexposure to 2,4-D include fatigue, muscle weakness and nausea.

**Acute Toxicity/Irritation Studies (Finished Product):**

Ingestion:	<u>Slightly Acutely Toxic</u> Oral (LD50 Female Rat)	1,500 mg/kg body weight
Dermal:	<u>Low Acute Toxicity</u> Dermal (LD50 Rat)	> 5,000 mg/kg body weight
Inhalation:	<u>Low Acute Toxicity</u> Inhalation (LC50 Rat)	> 5.28 mg/L air – 4 hours
Eye Contact:	<u>Slightly Irritating (Rabbit)</u>	
Skin Contact:	<u>Slightly Irritating (Rabbit)</u>	
Skin Sensitization:	<u>Not a Sensitizer (Guinea Pig)</u>	

**Specific Target Organ Toxicity (STOT) Single Exposure:**

2,4-D:	May cause respiratory irritation.
Fluroxypyr-meptyl:	Not classified as a specific target organ toxicant, single exposure.

**Specific Target Organ Toxicity (STOT) Repeated Exposure:**

2,4-D:	Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
Fluroxypyr-meptyl:	Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity:**

2,4-D:	IARC lists exposure to 2,4-D as possibly carcinogenic to humans (Group 2B), based on inadequate evidence in humans and limited evidence in animals. 2,4-D was not carcinogenic in rats or mice in lifetime feeding studies.
Fluroxypyr-meptyl:	Animal testing did not show any carcinogenic effects.

**Reproductive Toxicity:**

2,4-D:	2,4-D is not considered a reproductive toxicant.
Fluroxypyr-meptyl:	No toxicity to reproduction. Animal tests showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.



**Mutagenicity:**

2,4-D: In-vitro and in-vivo test results indicate 2,4-D is not mutagenic or genotoxic.  
Fluroxypyr-meptyl: Did not cause genetic damage in cultured bacterial cells. Did not show mutagenic effects in animal experiments.

**Aspiration Hazard:**

2,4-D: Not classified as an aspiration hazard.  
Fluroxypyr-meptyl: Not classified as an aspiration hazard.

**Other Toxicity Information:**

2,4-D: Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness and nausea.

**Toxicity of Other Components:**

The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the “other components” in the formulation.

Petroleum solvent: Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat and lungs. Breathing of high vapour concentrations may cause central nervous system (CNS) depression, resulting in dizziness, light headedness, headache, nausea and loss of coordination.

n-hexyl alcohol: May be irritating to the eyes. Harmful if ingested. Can be harmful if inhaled. Can be irritating to the respiratory tract. Can be harmful if absorbed through skin. Can be irritating to the skin.

**SECTION 12: ECOLOGICAL INFORMATION**

**Eco-Acute Toxicity:**

2,4-D:

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	5.2 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	7.2 ppm
Birds (5-day dietary – Mallard Duck) LC <sub>50</sub>	> 5,620 ppm

Fluroxypyr-meptyl:

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	> 100 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	> 100 ppm
Birds (8-day dietary – Bobwhite Quail) LC <sub>50</sub> /EC <sub>50</sub>	> 2,000 ppm

**Persistence & Degradability:**

2,4-D: In aerobic soil and water, 2,4-D 2EHE is rapidly hydrolyzed to 2,4-D acid, DT50 < 1 day. 2,4-D is microbially degraded with typical half-life (ester and acid) of 5-10 days. Persistent in anaerobic environments.

Fluroxypyr-meptyl: Low persistence in soil. Low persistence in water.

**Bioaccumulation Potential:**

2,4-D: BCF < 500; does not bioaccumulate.

Fluroxypyr-meptyl: BCF < 500; does not bioaccumulate.

**Mobility in Soil:**

2,4-D: Moderate to high mobility potential, but rapidly degraded.

Fluroxypyr-meptyl: Expected to be relatively immobile in soil.

**Other Adverse Effects:** Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Disposal Methods:**

Waste from residues: Refer to the product label for specific disposal/recycling information.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Do not dispose of waste into sewer.  
 Where possible recycling is preferred to disposal or incineration.  
 If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Refer to the product label for specific disposal/recycling information.  
 Empty remaining contents  
 Triple rinse containers  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not reuse empty containers.

**SECTION 14: TRANSPORT INFORMATION**

**TDG Classification – Road/Rail:**

Not regulated.

**Water Transport – International (IMDG):**

UN Number: UN 3082  
 Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (2,4-D/Fluroxypyr-meptyl), Marine Pollutant.  
 Transport Hazard Class: Class 9  
 Packing Group: PG III  
 Environmental Hazards: Marine pollutant, combustible liquid.

**Air Transport (IATA-DGR):**

UN Number: UN 3082  
 Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (2,4-D/Fluroxypyr-meptyl).  
 Transport Hazard Class: Class 9  
 Packing Group: PG III  
 Environmental Hazards: Environmentally hazardous, combustible liquid.

**Special Precautions for User:**

Not applicable.

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:**

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

There are Canada-specific environmental requirements for handling, use and disposal of this pest control product that are indicated on the product label.

**Hazardous Products Act Information:**

This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

**Hazardous Products Act Information: WHMIS 2015 Classification**

This product is exempt under WHMIS 2015.

**Pest Control Products Act (PCPA) Registration No.: 31673**

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:



**PCPA Label Hazard Communications:**

Read the label and attached booklet before using.

Keep out of reach of children.

Caution: Poison.

Skin Irritant.

<b>PCPA Hazard on Label:</b>	<b>Poison</b>	<b>GHS Hazard Classification:</b>	<b>Acute Toxicity (Oral) – Category 4</b>
PCPA Precautionary Symbol:		GHS Hazard Symbol:	
PCPA Signal Word(s):	Caution	GHS Signal Word:	Warning
PCPA Hazard Statement:	Not applicable.	GHS Hazard Statement:	H302 – Harmful if swallowed.
<b>PCPA Hazard on Label:</b>	<b>Skin Irritant</b>	<b>GHS Hazard Classification:</b>	<b>Not applicable.</b>
PCPA Precautionary Symbol:	Not applicable.	GHS Hazard Symbol:	Not applicable.
PCPA Signal Word(s):	Not applicable.	GHS Signal Word:	Not applicable.
PCPA Hazard Statement:	Not applicable.	GHS Hazard Statement:	Not applicable.

**Allergens Contained in the Pest Control Product:**

Not applicable.

**NPRI Components:**

Petroleum solvent (heavy aromatic).

**SECTION 16: OTHER INFORMATION**

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Syngenta will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant SDS. Hazardous properties of all ingredients have been considered in the preparation of this SDS. Read the entire SDS for the complete hazard evaluation of this product.

## Full Text of Abbreviations:

AB – Province of Alberta

BC – Province of British Columbia

BCF – Bioconcentration factor

EC<sub>50</sub> – Effective concentration, 50%

GHS – Globally Harmonized System of Classification and Labeling of Chemicals

LC<sub>50</sub> – Lethal concentration, 50%LD<sub>50</sub> – Lethal dose, 50%

IARC – International Agency for Research on Cancer

IATA-DGR – International Air Transport Association Dangerous Goods Regulations

IMDG – International Maritime Code for Dangerous Goods

NTP – National Toxicology Program

ON – Province of Ontario

OSHA – Occupational Safety &amp; Health Administration

PEL – Permissible Exposure Limit

TDG – Transportation of Dangerous Goods

TLV – Threshold Limit Value

QC – Province of Quebec

SDS – Safety Data Sheet

WHMIS – Workplace Hazardous Materials Information System

Changes since last revision: Converted to SDS format.

Revision Date (Y-M-D): 2019-01-24

Supersedes Date (Y-M-D): 2017-12-31

Prepared by: Syngenta Canada Inc.

1-87-SYNGENTA (1-877-964-3682)

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END OF SAFETY DATA SHEET.

**SECTION 1: PRODUCT INFORMATION**

**Product Identifier:** TRAXOS® TWO GRASS COMPONENT

**Formulation Number:** A14298F

**Registration Number:** 31674 (Pest Control Products Act)

**Product Use:** Herbicide. Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

**Syngenta Canada Inc.**  
**140 Research Lane, Research Park**  
**Guelph, ON N1G 4Z3**

**SDS prepared by:** Department of Regulatory & Biological Assessment, Syngenta Canada Inc.

**For further information, contact:** 1-87-SYNGENTA (1-877-964-3682)

**In Case of Emergency, Call: 1-800-327-8633 (FAST MED)**

**SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with UN GHS Version 5.

**Hazard Classification(s):** Acute Toxicity (Inhalation) – Category 4  
 Aspiration Hazard – Category 1  
 Reproductive Toxicity – Category 1B  
 Skin Irritation – Category 2  
 Skin Sensitization – Category 1  
 Specific Target Organ Toxicity (STOT) Single Exposure – Category 3  
 Specific Target Organ Toxicity (STOT) Repeated Exposure – Category 2

**Hazard Symbol(s):**



**Signal Word:** DANGER

**Hazard Statement(s):** H304 – May be fatal if swallowed and enters airway.  
 H315 – Causes skin irritation.  
 H317 – May cause an allergic skin reaction.  
 H332 – Harmful if inhaled.  
 H335 – May cause respiratory irritation.  
 H336 – May cause drowsiness or dizziness.  
 H360 – May damage fertility or the unborn child.  
 H373 – May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement(s):**

- Prevention:** P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P260 – Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 – Wash thoroughly after handling.  
P271 – Use only outdoors or in a well-ventilated area.  
P272 – Contaminated work clothing should not be allowed out of the workplace.  
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- Response:** P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302+P352 – IF ON SKIN: Wash with plenty of water.  
P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P313 – IF exposed or concerned: Get medical advice/attention.  
P312 – Call a POISON CENTER/doctor if you feel unwell.  
P321 – Specific treatment: See Section 4 of this SDS.  
P331 – Do NOT induce vomiting.  
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 – Take off contaminated clothing and wash it before reuse.
- Storage:** P403+P233 – Store in a well-ventilated place. Keep container tightly closed.  
P405 – Store locked up.
- Disposal:** P501 – Dispose of contents/containers to an approved waste disposal plant.

**Other Hazards Which do not Result in GHS Classification:** To avoid risk to human health and the environment, comply with the instructions for use. Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Common Name	CAS Number	Average % by weight
Solvent naphtha (petroleum), heavy aromatic	Petroleum solvent	64742-94-5	30 – 40
Tris(2-ethylhexyl)phosphate	Trioctyl phosphate	78-42-2	30 – 40
Tetrahydro-2-furylmethanol	Tetrahydrofurfuryl alcohol (THFA)	97-99-4	10 – 20
8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-9-yl-2,2-dimethylpropanoate	Pinoxaden	243973-20-8	2.5
2-propynyl-(2R)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]propanoate	Clodinafop-propargyl	105512-06-9	2.5
Benzene sulfonic acid, dodecyl-, calcium salt	Calcium dodecylbenzene sulphonate	26264-06-2	1 – 2.5
1-methylhexyl-2-[(5-chloro-8-quinolinyl)oxy]acetate	Cloquintocet-mexyl	99607-70-2	0.63

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

**SECTION 4: FIRST AID MEASURES**

**IF POISONING IS SUSPECTED, immediately contact the poison information centre, doctor or nearest hospital.** Have the product container, label or Safety Data Sheet with you when calling Syngenta, a poison control centre or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Call the Syngenta Emergency Line [1-800-327-8633 (1-800-FASTMED)], for further information.

**Eye Contact:** Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eyes. Call Syngenta, a poison control centre or doctor for treatment advice. Obtain medical attention immediately if irritation persists.

**Skin Contact:** Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Flush skin with running water for a minimum of 15-20 minutes. Call Syngenta, a poison control centre or doctor for treatment advice.

**Inhalation:** Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call Syngenta, a poison control centre or doctor for treatment advice.

**Ingestion:** If swallowed, immediately contact Syngenta, a poison control centre, doctor or nearest hospital for treatment advice. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occurs, have the victim lean forward with head down to avoid breathing in of vomitus.

**Most Important Symptoms/Effects, Acute and Delayed:**

May be fatal if swallowed and enters airway.

Harmful if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

**Indication of Immediate Medical Attention and Special Treatment:**

There is no specific antidote.

Treat symptomatically.

Contains petroleum distillates, vomiting may cause aspiration pneumonia.

Persons suffering from a temporary allergic reaction may respond to treatment with oral antihistamines or steroid creams and/or systemic steroids.



**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable (and Unsuitable) Extinguishing Media:** Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread the fire.

**Specific Hazards Arising from the Product:** Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water run-off can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use adequate ventilation and equipment and wear clothing as described in Section 8 and/or the product label.

**Environmental Precautions:** Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Spillages or uncontrolled discharges into watercourses must be reported to the appropriate regulatory body.

**Methods and Materials for Containment and Cleaning Up:** Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or seep up material and place into a disposal container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into a compatible disposal container. On soils, small amounts will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling:** Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

KEEP OUT OF REACH OF CHILDREN. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours, dust or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in original container in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Refer to the product label for specific storage recommendations, including minimum storage temperature and freeze/thaw stability. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

CONSULT THE PRODUCT LABEL FOR COMMERCIAL AND/OR ON-FARM APPLICATIONS.

**Control Parameters:**

Component	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS†
Petroleum solvent	Not established	Not established	50 mg/m <sup>3</sup> TWA*; 300 ppm TWA (AB/QC); Use calculation required (BC/ON)	No	Not established
Trioctyl phosphate	Not established	Not established	Not established	No	Not established
Tetrahydrofurfuryl alcohol (THFA)	Not established	Not established	0.5 ppm AIHA WEEL****	No	Not established
Pinoxaden	Not established	Not established	0.1 mg/m <sup>3</sup> TWA***	No	Not established
Clodinafop-propargyl	Not established	Not established	1 mg/m <sup>3</sup> TWA***	No	Not established
Calcium dodecylbenzene sulphonate	Not established	Not established	Not established	No	Not established
Cloquintocet-mexyl	Not established	Not established	5 mg/m <sup>3</sup> TWA***	No	Not established

- \* Recommended by Manufacturer
- \*\* Recommended by NIOSH
- \*\*\* Syngenta Occupational Exposure Limit (OEL)
- \*\*\*\* Recommended by AIHA (American Industrial Hygiene Association)
- † Material listed in Ingredient Disclosure List under the Hazardous Products Act

**Appropriate Engineering Controls:** If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV (threshold limit value). Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

**Individual Protection Measures:**

**General:** Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

**Ingestion:** Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

**Eyes:** Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Skin:** Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

**Inhalation:** A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH certified respirator with any R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air purifying respirators may not provide adequate protection.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Light, transparent amber liquid.

**Formulation Type:** Emulsifiable concentrate.

**Physical State:** Liquid.

**Odour:** Aromatic.

**Odour Threshold:** Not available.

**pH:** 5.9 (1% aqueous solution @ 25 °C).

**Melting Point:** Not applicable.

**Freezing Point:** Not available.

**Initial Boiling Point and Boiling Range:** Not available.

**Flash Point:** > 78 °C.

**Evaporation Rate:** Not available.

**Flammability (solid/gas):** Combustible liquid.

**Lower Explosive Limit:** Not applicable.

**Upper Explosive Limit:** Not applicable.

**Vapour Pressure:** Pinoxaden: 3.50 x 10<sup>-9</sup> mmHg @ 20 °C.

Clodinafop-propargyl: 2.90 x 10<sup>-8</sup> mmHg @ 20 °C.

Cloquintocet-mexyl: 4.00 x 10<sup>-8</sup> mmHg @ 20 °C.

**Vapour Density:** Not available.

**Relative Density:** 0.99 g/mL @ 20 °C.

**Solubility(ies):** Pinoxaden: 200 mg/L @ 20 °C, pH 7 (water).

Clodinafop-propargyl: 4 mg/L @ 20 °C, pH 7 (water).

Cloquintocet-mexyl: 0.54 mg/L @ 20 °C, pH 7 (water).

**Partition Coefficient (n-octanol water):** Pinoxaden: 3.2

Clodinafop-propargyl: 3.9

Cloquintocet-mexyl: 5.2

**Auto-Ignition Temperature:** 305 °C.

**Decomposition Temperature:** Not available.

**Viscosity:** 12 mPa·s.

**Other Information:** Not applicable.

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Not reactive.

**Chemical Stability:** Stable under normal use and storage conditions.

**Possibility of Hazardous Reactions:** Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back.

**Conditions to Avoid:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Incompatible Materials:** No substances are known which lead to the formation of hazardous substances or thermal reactions.

**Hazardous Decomposition Products:** Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Dermal, inhalation, oral.

**Symptoms of Acute Exposure:** May be fatal if swallowed and enters airway. Harmful if inhaled. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.

**Potential Health Effects:** May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Acute Toxicity/Irritation Studies (Finished Product):**

Ingestion: Low Acute Toxicity  
Oral (LD50 Rat) > 5,000 mg/kg body weight

Dermal: Low Acute Toxicity  
Dermal (LD50 Rat) > 5,050 mg/kg body weight

Inhalation: Low Acute Toxicity  
Inhalation (LC50 Rat) > 2.64 mg/L air – 4 hours

Eye Contact: Minimally Irritating (Rabbit)

Skin Contact: Moderately Irritating (Rabbit)

Skin Sensitization: Sensitizer (Guinea Pig)

**Specific Target Organ Toxicity (STOT) Single Exposure:**

Pinoxaden: Based on human evidence: May cause respiratory irritation, breathing difficulties, cough, acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.

Clodinafop-propargyl: Not classified as a specific target organ toxicant, single exposure.

Cloquintocet-mexyl: Not classified as a specific target organ toxicant, single exposure.

**Specific Target Organ Toxicity (STOT) Repeated Exposure:**

Pinoxaden: No adverse effect has been observed in chronic toxicity tests.

Clodinafop-propargyl: May cause damage to organs through prolonged or repeated exposure.

Cloquintocet-mexyl: Classified as a specific target organ toxicant, category 2.

**Carcinogenicity:**

Pinoxaden: Did not show carcinogenic effects in animal experiments.

Clodinafop-propargyl: Did not show carcinogenic effects in animal experiments.

Cloquintocet-mexyl: Did not show carcinogenic effects in animal experiments.

**Reproductive Toxicity:**

Pinoxaden: Did not show reproductive toxicity effects in animal experiments.

Clodinafop-propargyl: Did not show reproductive toxicity effects in animal experiments.

Cloquintocet-mexyl: Did not show reproductive toxicity effects in animal experiments.

**Mutagenicity:**

Pinoxaden: Did not show mutagenic effects in animal experiments.

Clodinafop-propargyl: Did not show mutagenic effects in animal experiments.

Cloquintocet-mexyl: Did not show mutagenic effects in animal experiments.

**Aspiration Hazard:**

Pinoxaden:	Not classified as an aspiration hazard.
Clodinafop-propargyl:	Not classified as an aspiration hazard.
Cloquintocet-mexyl:	Not classified as an aspiration hazard.

**Toxicity of Other Components:**

The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the “other components” in the formulation.

Petroleum solvent:	Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat and lungs. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light headedness, headache, nausea and loss of coordination.
Triocetyl phosphate:	Causes skin and eye irritation.
Tetrahydrofurfuryl alcohol (THFA):	May be harmful if swallowed. Causes respiratory tract irritation. May cause digestive tract irritation. Causes severe eye irritation. Inhalation overexposure may cause dizziness, incoordination and unconsciousness. Chronic overexposure may affect the kidney.
Calcium dodecylbenzene sulphonate:	Causes serious eye damage. Causes skin irritation.

**SECTION 12: ECOLOGICAL INFORMATION**

**Eco-Acute Toxicity:**

**Pinoxaden:**

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	52 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	10.3 ppm
Birds (8-day dietary – Bobwhite Quail) LC <sub>50</sub>	> 5,790 ppm

**Clodinafop-propargyl:**

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	> 2.0 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	> 0.39 ppm
Birds (8-day dietary – Mallard Duck) LC <sub>50</sub> /EC <sub>50</sub>	> 5,200 ppm

**Cloquintocet-mexyl:**

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	> 0.82 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	> 0.97 ppm
Birds (14-day – Bobwhite Quail) LC <sub>50</sub>	> 2,000 ppm

**Persistence & Degradability:**

Pinoxaden:	Low persistence in soil. Low persistence in water.
Clodinafop-propargyl:	Low persistence in soil. Low persistence in water.
Cloquintocet-mexyl:	Low persistence in soil. Low persistence in water.

**Bioaccumulation Potential:**

Pinoxaden:	BCF < 500; does not bioaccumulate.
Clodinafop-propargyl:	BCF < 500; does not bioaccumulate.
Cloquintocet-mexyl:	BCF < 500; does not bioaccumulate.

**Mobility in Soil:**

Pinoxaden:	Low mobility in soil.
Clodinafop-propargyl:	Low to moderate mobility in soil.
Cloquintocet-mexyl:	Low mobility in soil.

**Other Adverse Effects:** Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS****Disposal Methods:**

Waste from residues: Refer to the product label for specific disposal/recycling information.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Refer to the product label for specific disposal/recycling information.  
Empty remaining contents  
Triple rinse containers  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not reuse empty containers.

**SECTION 14: TRANSPORT INFORMATION****TDG Classification – Road/Rail:**

Not regulated as a dangerous good.

**Water Transport – International (IMDG):**

UN Number: UN 3082  
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Pinoxaden, Clodinafop-propargyl),  
Marine Pollutant.  
Transport Hazard Class: Class 9  
Packing Group: PG III  
Environmental Hazards: Marine pollutant.

**Air Transport (IATA-DGR):**

UN Number: UN 3082  
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Pinoxaden, Clodinafop-propargyl).  
Transport Hazard Class: Class 9  
Packing Group: PG III  
Environmental Hazards: Environmentally hazardous.

**Special Precautions for User:**

Not applicable.

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:**

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

There are Canada-specific environmental requirements for handling, use and disposal of this pest control product that are indicated on the product label.

**Hazardous Products Act Information:**

This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

**Hazardous Products Act Information:** WHMIS 2015 Classification

This product is exempt under WHMIS 2015.

**Pest Control Products Act (PCPA) Registration No.:** 31674

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:



**PCPA Label Hazard Communications:**

Read the label and this booklet before using.

Keep out of reach of children.

Warning – Skin Irritant.

Potential Skin Sensitizer.

<p><b>PCPA Hazard on Label:</b> PCPA Precautionary Symbol:</p>	<p><b>Skin Irritant</b> Not applicable.</p>	<p><b>GHS Hazard Classification:</b> GHS Hazard Symbol:</p>	<p><b>Skin Irritation – Category 2</b> </p>
<p>PCPA Signal Word(s): PCPA Hazard Statement:</p>	<p>Warning Not applicable.</p>	<p>GHS Signal Word: GHS Hazard Statement:</p>	<p>Warning H315 – Causes skin irritation.</p>
<p><b>PCPA Hazard on Label:</b> PCPA Precautionary Symbol:</p>	<p><b>Potential Skin Sensitizer</b> Not applicable.</p>	<p><b>GHS Hazard Classification:</b> GHS Hazard Symbol:</p>	<p><b>Skin Sensitization – Category 1</b> </p>
<p>PCPA Signal Word(s): PCPA Hazard Statement:</p>	<p>Not applicable. Not applicable.</p>	<p>GHS Signal Word: GHS Hazard Statement:</p>	<p>Warning H317 – May cause an allergic skin reaction.</p>

**Allergens Contained in the Pest Control Product:**

Product may cause an allergic skin reaction.

**NPRI Components:**

Petroleum solvent.



**SECTION 16: OTHER INFORMATION**

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Syngenta will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant SDS. Hazardous properties of all ingredients have been considered in the preparation of this SDS. Read the entire SDS for the complete hazard evaluation of this product.

## Full Text of Abbreviations:

AB – Province of Alberta

BC – Province of British Columbia

BCF – Bioconcentration factor

EC<sub>50</sub> – Effective concentration, 50%

GHS – Globally Harmonized System of Classification and Labeling of Chemicals

LC<sub>50</sub> – Lethal concentration, 50%LD<sub>50</sub> – Lethal dose, 50%

IARC – International Agency for Research on Cancer

IATA-DGR – International Air Transport Association Dangerous Goods Regulations

IMDG – International Maritime Code for Dangerous Goods

NTP – National Toxicology Program

ON – Province of Ontario

OSHA – Occupational Safety &amp; Health Administration

PEL – Permissible Exposure Limit

TDG – Transportation of Dangerous Goods

TLV – Threshold Limit Value

QC – Province of Quebec

SDS – Safety Data Sheet

WHMIS – Workplace Hazardous Materials Information System

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