SAFETY DATA SHEET

1. Identification

Product identifier	KD120P KNOCK DOWN PRO	DFESSIONAL FLYING & CRAWLING INSECT KILLER
Other means of identification		
Product code	KD120P	
Recommended use	Pesticide	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Manufacturer		
Company name	KUUS INC.	
Address	450 TAPSCOTT ROAD	
	SCARBOROUGH, ON M1B 1	Y4
	Canada	
Telephone	General Assistance	1-416-298-7724
E-mail	Not available.	
Emergency phone number	Canutec	1-888-226-8832
		1-613-996-6666

2. Hazard(s) identification

Physical hazards		
Health hazards	Flammable aerosols	Category 1
Label elements	Aspiration hazard	Category 1
	$\wedge \wedge$	
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. May be fatal if	swallowed and enters airways.
Precautionary statement		
Prevention		pen flames and other ignition sources. No smoking. on source. Do not pierce or burn, even after use.
Response	IF SWALLOWED: Immediately call a POISON	CENTER/doctor. Do NOT induce vomiting.
Storage	Store locked up. Protect from sunlight. Do not	expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance	with local/regional/national/international regulations.
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
Other hazards	None known.	
0	N	

Supplemental information None.

Mixtures

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), Heavy Alkylate		64741-65-7	40 - 70
Propane		74-98-6	15 - 40
Isobutane		75-28-5	7 - 13

Chemical name	Common name and synonyms	CAS number	%
Piperonyl Butoxide		51-03-6	3 - 7
Distillates (petroleum), Hydrotreated Light		64742-47-8	1 - 5
Pyrethrins		8003-34-7	0.1 - 1
Other components below rep	ortable levels		0.1 - 1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Inhalation	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Environmental precautions	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 3 Aerosol.
	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may

cause spark and become an ignition source. Store away from incompatible materials (see Section

8. Exposure controls/personal protection

10 of the SDS).

Components	Туре	Value	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
Canada. Alberta OELs (Occ	upational Health & Safety (Code, Schedule 1, Table 2)	
Components	Туре	Value	
Propane (CAS 74-98-6)	TWA	1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
Canada. British Columbia O Safety Regulation 296/97, as		ure Limits for Chemical Substances,	Occupational Health and
Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
Canada. Manitoba OELs (Re	eg. 217/2006, The Workplac	e Safety And Health Act)	
Components	Туре	Value	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
Canada. Ontario OELs. (Cor	ntrol of Exposure to Biolog	ical or Chemical Agents)	
Canada. Ontario OELs. (Cor Components	ntrol of Exposure to Biolog Type	ical or Chemical Agents) Value	
Components	Туре	Value	
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7)	Type TWA TWA	Value 800 ppm	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7)	Type TWA TWA	Value800 ppm5 mg/m3	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min	Type TWA TWA Nistry of Labor - Regulation	Value 800 ppm 5 mg/m3 Respecting the Quality of the Work	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components	Type TWA TWA iistry of Labor - Regulation Type	Value 800 ppm 5 mg/m3 Respecting the Quality of the Work Value	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components	Type TWA TWA iistry of Labor - Regulation Type	Value 800 ppm 5 mg/m3 • Respecting the Quality of the Work Value 1800 mg/m3	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7)	Type TWA TWA histry of Labor - Regulation Type TWA TWA	Value 800 ppm 5 mg/m3 • Respecting the Quality of the Work Value 1800 mg/m3 1000 ppm	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7) Diogical limit values	Type TWA TWA histry of Labor - Regulation Type TWA TWA	Value 800 ppm 5 mg/m3 • Respecting the Quality of the Work Value 1800 mg/m3 1000 ppm 5 mg/m3	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components Propane (CAS 74-98-6)	Type TWA TWA TWA TWA TWA TWA No biological exposure lim	Value 800 ppm 5 mg/m3 • Respecting the Quality of the Work Value 1800 mg/m3 1000 ppm 5 mg/m3	Environment)
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7) Diogical limit values posure guidelines	Type TWA TWA TWA TWA TWA TWA No biological exposure lim DELs: Skin designation	Value 800 ppm 5 mg/m3 • Respecting the Quality of the Work Value 1800 mg/m3 1000 ppm 5 mg/m3	
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7) plogical limit values posure guidelines Canada - British Columbia (C Distillates (petroleum), Hy 64742-47-8) propriate engineering	Type TWA TWA TWA TWA No biological exposure lim DELs: Skin designation ydrotreated Light (CAS Good general ventilation (t should be matched to cond or other engineering control	Value 800 ppm 5 mg/m3 • Respecting the Quality of the Work Value 1800 mg/m3 1000 ppm 5 mg/m3 its noted for the ingredient(s).	d be used. Ventilation rates sures, local exhaust ventilatio commended exposure limits. I
Components Isobutane (CAS 75-28-5) Pyrethrins (CAS 8003-34-7) Canada. Quebec OELs. (Min Components Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7) ological limit values posure guidelines Canada - British Columbia (Distillates (petroleum), Hy	Type TWA TWA TWA TWA histry of Labor - Regulation Type TWA TWA No biological exposure lim DELs: Skin designation ydrotreated Light (CAS Good general ventilation (f should be matched to cond or other engineering contro exposure limits have not b	Value 800 ppm 5 mg/m3 A Respecting the Quality of the Work Value 1800 mg/m3 1000 ppm 5 mg/m3 its noted for the ingredient(s). Can be absorbed through the skin typically 10 air changes per hour) should ditions. If applicable, use process enclose ols to maintain airborne levels below rece een established, maintain airborne level	d be used. Ventilation rates sures, local exhaust ventilatio commended exposure limits. I

Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

····	
Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.2 % estimated
Flammability limit - upper (%)	7.8 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	718.6 °F (381.44 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Heat of combustion (NFPA 30B)	41.18 kJ/g estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.233 estimated

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on	likely rout	es of exposure
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Inhalation	No adverse effects due to inhalation are expected.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis.	

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways.
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Components	Species	Test Results	
Distillates (petroleum), Hydro	otreated Light (CAS 64742-47-8)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
		> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Rat	> 7.5 mg/l, 6 Hours	
		> 4.6 mg/l, 4 Hours	
Oral		-	
LD50	Rat	> 5000 mg/kg	
sobutane (CAS 75-28-5)			
Acute			
Inhalation			
LC50	Mouse	1237 mg/l, 120 Minutes	
		52 %, 120 Minutes	
	Rat	1355 mg/l	
Piperonyl Butoxide (CAS 51-	-03-6)	, i i i i i i i i i i i i i i i i i i i	
Acute	,		
Dermal			
LD50	-	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 5.2 mg/l, 4 Hours	
Oral			
LD50	Rat	> 2000 mg/kg	
Propane (CAS 74-98-6)			
Acute			
Inhalation			
LC50	Mouse	1237 mg/l, 120 Minutes	
		52 %, 120 Minutes	
	Rat	1355 mg/l	
		-	

Components	Species		Test Results
			658 mg/l/4h
* Estimates for product may h	he based on add	ditional component data not shown.	
Skin corrosion/irritation		kin contact may cause temporary irritation	on.
Serious eye damage/eye	Direct contact with eyes may cause temporary irritation.		
irritation	Direct contact with eyes may cause temporary initiation.		
Respiratory or skin sensitizatio	n		
Canada - British Columbia	OELs: Respira	tory or skin sensitiser	
Pyrethrins (CAS 8003-34	1-7)	Capable of causing r sensitization.	respiratory, dermal or conjunctival
Respiratory sensitization	Not a respira	atory sensitizer.	
Skin sensitization	This product	is not expected to cause skin sensitizat	ion.
Germ cell mutagenicity	No data avai mutagenic o	lable to indicate product or any compon r genotoxic.	ents present at greater than 0.1% are
Carcinogenicity			
ACGIH Carcinogens			
Pyrethrins (CAS 8003-34 Canada - Manitoba OELs: c	,		s a human carcinogen.
PYRETHRUM (CAS 800	,	Not classifiable as a	human carcinogen.
IARC Monographs. Overall			
Piperonyl Butoxide (CAS	-		to carcinogenicity to humans.
Reproductive toxicity	-	is not expected to cause reproductive o	r developmental effects.
Specific target organ toxicity - single exposure	Not classified	d.	
	Not classified	d.	
repeated exposure		d. if swallowed and enters airways.	
repeated exposure Aspiration hazard	May be fatal		
repeated exposure Aspiration hazard 12. Ecological information	May be fatal		
repeated exposure Aspiration hazard 12. Ecological information	May be fatal	if swallowed and enters airways.	Test Results
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity	May be fatal n Very toxic to	if swallowed and enters airways. aquatic life with long lasting effects. Species	Test Results
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro	May be fatal n Very toxic to	if swallowed and enters airways. aquatic life with long lasting effects. Species	Test Results
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity <u>Components</u>	May be fatal n Very toxic to	if swallowed and enters airways. aquatic life with long lasting effects. Species	Test Results 2.9 mg/l, 96 hours
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic	May be fatal N Very toxic to treated Light (C LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss)	
Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish	May be fatal N Very toxic to treated Light (C LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss)	
Aspiration hazard 12. Ecological information Ecotoxicity <u>Components</u> Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy	May be fatal N Very toxic to treated Light (C LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss)	
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity <u>Components</u> Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-6	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6)	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours
Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6)	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours
Aspiration hazard Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7)	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6)	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours
Aspiration hazard Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7) Aquatic	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6) LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours 0.0027 - 0.0043 mg/l, 96 hours
Aspiration hazard Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7) Aquatic Crustacea Fish	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6) LC50 EC50 LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout (Oncorhynchus mykiss) Water flea (Daphnia) Brown trout (Salmo trutta)	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours 0.0027 - 0.0043 mg/l, 96 hours 0.018 - 0.032 mg/l, 48 hours
Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7) Aquatic Crustacea Fish * Estimates for product may b	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6) LC50 EC50 LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout (Oncorhynchus mykiss) Water flea (Daphnia) Brown trout (Salmo trutta) ditional component data not shown.	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours 0.0027 - 0.0043 mg/l, 96 hours 0.018 - 0.032 mg/l, 48 hours 0.0165 - 0.0229 mg/l, 96 hours
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7) Aquatic Crustacea Fish * Estimates for product may b Persistence and degradability	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6) LC50 EC50 LC50	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout (Oncorhynchus mykiss) Water flea (Daphnia) Brown trout (Salmo trutta)	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours 0.0027 - 0.0043 mg/l, 96 hours 0.018 - 0.032 mg/l, 48 hours 0.0165 - 0.0229 mg/l, 96 hours
Aspiration hazard Aspiration hazard 12. Ecological information Ecotoxicity Components Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7) Aquatic Crustacea Fish * Estimates for product may to Persistence and degradability Bioaccumulative potential	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6) LC50 EC50 LC50 be based on add No data is av	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout (Oncorhynchus mykiss) Water flea (Daphnia) Brown trout (Salmo trutta) ditional component data not shown. vailable on the degradability of this prode	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours 0.0027 - 0.0043 mg/l, 96 hours 0.018 - 0.032 mg/l, 48 hours 0.0165 - 0.0229 mg/l, 96 hours
Distillates (petroleum), Hydro Aquatic Fish Naphtha (petroleum), Heavy Aquatic Algae Piperonyl Butoxide (CAS 51-0 Aquatic Fish Pyrethrins (CAS 8003-34-7) Aquatic Crustacea Fish	May be fatal Very toxic to treated Light (C LC50 Alkylate (CAS 6 IC50 03-6) LC50 EC50 LC50 be based on add No data is av	if swallowed and enters airways. aquatic life with long lasting effects. Species CAS 64742-47-8) Rainbow trout,donaldson trout (Oncorhynchus mykiss) 64741-65-7) Algae Rainbow trout,donaldson trout (Oncorhynchus mykiss) Water flea (Daphnia) Brown trout (Salmo trutta) ditional component data not shown. vailable on the degradability of this prode	2.9 mg/l, 96 hours 30000 mg/L, 72 Hours 0.0027 - 0.0043 mg/l, 96 hours 0.018 - 0.032 mg/l, 48 hours 0.0165 - 0.0229 mg/l, 96 hours

Partition coefficient n-c	octanol / water (log Kow)
Propane	2.36
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal consideration	ns
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

TDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	Yes
Special precautions for user	r Read safety instructions, SDS and emergency procedures before handling.

This product meets the exemption requirements and may be shipped as a limited quantity.

ΙΑΤΑ

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	Yes
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name Transport hazard class(es)	AEROSOLS
Class	2.1
Subsidiary risk	
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes
EmS	F-D, S-U

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IATA; IMDG; TDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

- Not listed.
- **Greenhouse Gases**
 - Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable. **Montreal Protocol**

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. Not applicable.

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Issue date	05-16-2023
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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.