# SAFETY DATA SHEET

# 1. Identification

Product identifier	KD241C KNOCK DOWN X-I	MAX FARM AND LIVESTOCK INSECT KILLER
Other means of identification		
Product code	KD241C	
Recommended use	Pesticide	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name	KUUS INC.	
Address	450 TAPSCOTT ROAD	
	SCARBOROUGH, ON M1B	1Y4
	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	Flammable aerosols	Category 1
Health hazards	Aspiration hazard	Category 1
Label elements		
	$\wedge$	
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.	
Cumplemental information	N1	

Supplemental information None.

# 3. Composition/information on ingredients

### Mixtures

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 reportable 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.
	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.
Environmental precautions	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, So	chedule 1, Table 2)	
Components	Туре	Value	
Propane (CAS 74-98-6)	TWA	1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
	ELs. (Occupational Exposure Limi	its for Chemical Substances, C	occupational Health and
Safety Regulation 296/97, as	-		-
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	g. 217/2006, The Workplace Safety	y And Health Act)	
Components	Туре	Value	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
	trol of Exposure to Biological or 0	Chemical Agents)	
Components	Туре	Value	
Isobutane (CAS 75-28-5)	TWA	800 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
Canada. Quebec OELs. (Min	istry of Labor - Regulation Respec	cting the Quality of the Work E	nvironment)
Components	Туре	Value	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
logical limit values	No biological exposure limits noted	I for the ingredient(s).	
osure guidelines			
Canada - British Columbia C	DELs: Skin designation		
Distillates (petroleum), Hy 64742-47-8)	/drotreated Light (CAS Ca	n be absorbed through the skin.	
propriate engineering trols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilatior or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
vidual protoction moscuros	such as personal protective equip	ment	

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

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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)	41.23 kJ/g estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.222 estimated
VOC (Weight %)	84.71 % 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 o	n likely routes	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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Actuation         Convention           Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)	Components	Species	Test Results
Acute Dermal LD50 Rabbit 2000 mg/kg 2000 mg/kg 24 Hours 2000 mg/kg, 24 Hours 2000 mg/kg, 24 Hours 2000 mg/kg, 24 Hours 2000 mg/kg, 24 Hours 2000 mg/kg 24 Hours 2000 mg/kg 24 Hours 2000 mg/kg 24 Hours 2000 mg/kg 2000 mg	-	-	
Permal       > 200 mg/kg         L50       Rabit       > 200 mg/kg         Inflation       > 7.5 mg/k GHours         L50       Raf       > 7.5 mg/k GHours         Data       > 2.6 mg/k GHours         L50       Raf       > 2.00 mg/kg         L50       Mouse       12.7 mg/kg         L50       Mouse       2.00 mg/kg         L50       Mouse       2.00 mg/kg         L50       Raf       3.00 mg/kg         L50       Raf			
LD50Rabbit> 2000 mg/kgInhatation LC50Rat> 7.5 mg/k 6 HoursLC50Rat> 7.5 mg/k 6 HoursInhatation LD50Rat> 5000 mg/kgIsobutarRat> 5000 mg/kgIsobutarMouse1237 mg/k 120 MinutesLC50Mouse1237 mg/k 120 MinutesInhatation LC50Rat355 mg/lIsobutarRat1355 mg/lPiermar LD50Rat3000 mg/kgPiermar LD50Inhatation LD50Inhatation LD50RaturPiermar LD50Inhatation LD50Inhatation LD50Rat-Inhatation LD50Rat-Inhatation LD50Rat-Inhatation LD50Rat-Inhatation LD50Rat-Inhatation LD50Rat-Inhatation LD50Manatation Active LD50Inhatation LD50Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation LD50-Inhatation			
Inhalation LC50 Rat > 7.5 mg/l, 6 Hours > 4.6 mg/l, 4 Hours Acute Inhalation LC50 Mouse Rat > 5000 mg/kg Isobutane (CAS 75-28-5) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes 1355 mg/l Piperonyl Butoxide (CAS 51-03-6) Rat 1355 mg/l Piperonyl Butoxide (CAS 51-03-6) Rat 2000 mg/kg Inhalation LC50 Rat 2000 mg/kg Inhalation LC50 Mouse I237 mg/l, 120 Minutes 52 %, 120 Minutes		Rabbit	> 2000 mg/kg
Inhalation LC50 Rat > 7.5 mg/l, 6 Hours > 4.6 mg/l, 4 Hours > 4.6 mg/l, 4 Hours > 5000 mg/kg Isobutane (CAS 75-28-5) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes S mg/l Piperonyl Butoxide (CAS 51-03-6) Rat 1355 mg/l Piperonyl Butoxide (CAS 51-03-6) Rat 1355 mg/l Piperonyl Butoxide (CAS 51-03-6) Rat 2000 mg/kg Inhalation LD50			> 2000 mg/kg, 24 Hours
LC50       Rat       > 7.5 mg/l, 6 Hours         Oral       > 4.6 mg/l, 4 Hours         LD50       Rat       > 5000 mg/kg         Isobutane (CAS 75-28-5)       -       -         Acute       -       -         Inhalation       1237 mg/l, 120 Minutes       -         LC50       Mouse       1237 mg/l, 120 Minutes         Formal       -       -       -         LD50       Rat       2000 mg/kg         Piperoner       -       -       -         LD50       -       -       -         LD50       -       -       -         Inhalation       -       -       -         LD50       Rat       -       -       -         CAT       -       -       -       -         D50       Rat       -       -       -         LD50       Rat       -       -       -       -         D50       Rat       -	Inhalation		
Oral LD50       Rat       > 5000 mg/kg         Isobutaur (CAS 75-28-5)		Rat	> 7.5 mg/l, 6 Hours
Oral L50         Rat         > 5000 mg/kg           L50         Rat         > 5000 mg/kg           Isobut=(CAS 75-28-5)         Imalation         Imalation           Inhalation         1237 mg/l, 120 Minutes         Imalation           LC50         Mouse         1237 mg/l, 120 Minutes           E         Rat         1355 mg/l           Piperon=Usutoxide (CAS 51-03-6)         Imalation         Imalation           L50         Acute         Imalation           Dermal         -         2000 mg/kg           L50         Rat         > 2000 mg/kg           Inhalation         -         -           L50         Rat         > 2000 mg/kg           Promei         -         -           L50         Rat         > 2000 mg/kg           Promei         -         -           L50         Rat         > 2000 mg/kg           Promei         -         -           L50         Rat         -           L50         Mouse         -           L50         Mouse         -           L50         Mouse         -           L50         Mouse         -           L50 <t< td=""><td></td><td></td><td>-</td></t<>			-
LD50       Rato       > 5000 mg/kg         Isobutar	Oral		5.
Isobutan UCAS 75-28-5)          Acute         Inhalation         LC50       Mouse         1237 mg/l, 120 Minutes         52 %, 120 Minutes         52 %, 120 Minutes         52 %, 120 Minutes         Fiperon/I Butoxide (CAS 51-03-6)         Acute         Dermal         LD50         LD50         Inhalation         LC50         Rat         D50         Rat         LD50         Rat         S000 mg/kg         Propane         LD50         Rat         D50         Rat         S000 mg/kg         Propane         LD50         Rat         S000 mg/kg         Propane         (CAS 74-98-6)         Acute         Inhalation         LC50         Mouse         LC50         Mouse         LC50         Mouse         LC50         Mouse         S2 %, 120 Minutes         S2 %, 120 Minutes		Rat	> 5000 mg/kg
Acute         Janalation           Inhalation         1237 mg/l, 120 Minutes           LC50         Mouse         52 %, 120 Minutes           52 %, 120 Minutes         52 %, 120 Minutes           Piperon/         Rata         1355 mg/l           Piperon/         LO50         -           Dermal         -         -           LD50         -         -           Inhalation         -         -           LC50         Rat         -           D50         Rata         > 2000 mg/kg           Inhalation         -         -           LD50         Rata         > 2000 mg/kg           Propane         CAST 4-98-69         -           LC50         Mouse         1237 mg/l, 120 Minutes           Inhalation         -         -           LC50         Mouse         1237 mg/l, 120 Minutes	Isobutane (CAS 75-28-5)		
Inhalation         1237 mg/l, 120 Minutes           LC50         Mouse         1237 mg/l, 120 Minutes           52 %, 120 Minutes         52 %, 120 Minutes           Piterone         Ration         1355 mg/l           Pormal         Jass         Jass           LD50         - 4000 mg/kg         -           Inhalation         Jass         Jass           LC50         Rat         - 2000 mg/kg           Propane         S2 mg/l, 4 Hours         -           LD50         Rat         - 2000 mg/kg           Propane         S2 mg/l, 4 Hours         -           LD50         Rat         - 2000 mg/kg           Propane         S2 mg/l, 4 Hours         -           LD50         Ration         - 2000 mg/kg           Propane         S2 mg/l, 4 Hours         -           LD50         Ration         - 2000 mg/kg           Hatation         S2 mg/l, 4 Hours         -           LC50         Mouse         1237 mg/l, 120 Minutes           LC50         Mouse         1237 mg/l, 120 Minutes			
Rat       52 %, 120 Minutes         Piperon/ Butoxide (CAS 51-03-6)       1355 mg/l         Acute       -         Dermal       -         LD50       -         Inhalation       > 2000 mg/kg         LC50       Rat         Oral       -         LD50       Rat         D50       Rat         Oral       -         LD50       Rat         D50       Rat         D50       Rat         D50       Rat         Acute         LD50       Rat         LD50       Rat         LD50       Rat         D50       Rat         LD50			
Rat       1355 mg/l         Piperor-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-	LC50	Mouse	1237 mg/l, 120 Minutes
Piperonyl Butoxide (CAS 51-03-6) Acute Dermal LD50 - 2000 mg/kg inhalation LC50 Rat 51-03-6) Propare (CAS 74-98-6) Propare (CAS 74-98-6) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes			52 %, 120 Minutes
AcuteDermalLD50-InhalationLC50RatDoralLD50RatCoralLD50RatAcuteInhalationECS0KateInhalationLC50MainDoralLD50RationCAS 74-98-6)AcuteInhalationLC50Mouse1237 mg/l, 120 MinutesS2 %, 120 Minutes		Rat	1355 mg/l
AcuteDermalLD50-InhalationLC50RatDoralLD50RatCoralLD50RatAcuteInhalationECS7 4-98-6)AcuteInhalationLC50Mouse1000<	Piperonyl Butoxide (CAS 51-	-03-6)	
LD50       -       > 2000 mg/kg         Inhalation       -       -         LC50       Rat       > 5.2 mg/k, 4 Hours         Oral       -       -         LD50       Rat       > 2000 mg/kg         Propare       -CAS 74-98-6)       -         LC50       Mouse       -         LC50       -       -         LC50			
Inhalation       Jobson         LC50       Rat       > 5.2 mg/l, 4 Hours         Oral       Jobson       Jobson         LD50       Rat       > 2000 mg/kg         Propane (CAS 74-98-6)       Jobson       Jobson         Acute       Jobson       Jobson         Inhalation       Jobson       Jobson         LC50       Mouse       1237 mg/l, 120 Minutes         S2 %, 120 Minutes       Jobson       Jobson	Dermal		
LC50       Rat       > 5.2 mg/l, 4 Hours         Oral	LD50	-	> 2000 mg/kg
Oral         Propane         Rat         > 2000 mg/kg           Propane         CAS 74-98-6)         Frequencies         Frequencies           Acute         Inhalation         Import 1237 mg/l, 120 Minutes         Frequencies           LC50         Mouse         1237 mg/l, 120 Minutes         Frequencies	Inhalation		
LD50       Rat       > 2000 mg/kg         Propane (CAS 74-98-6)	LC50	Rat	> 5.2 mg/l, 4 Hours
Propane (CAS 74-98-6)          Acute       Inhalation         LC50       Mouse       1237 mg/l, 120 Minutes         52 %, 120 Minutes       52 %, 120 Minutes	Oral		
AcuteInhalationLC50Mouse1237 mg/l, 120 Minutes52 %, 120 Minutes	LD50	Rat	> 2000 mg/kg
InhalationLC50Mouse1237 mg/l, 120 Minutes52 %, 120 Minutes	Propane (CAS 74-98-6)		
LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes			
52 %, 120 Minutes			
	LC50	Mouse	
Rat 1355 mg/l			52 %, 120 Minutes
		Rat	1355 mg/l

components	Specie	S		Test Results
				658 mg/l/4h
* Estimates for product m	ay be based on	additional component da	ata not shown.	
Skin corrosion/irritation	-	d skin contact may cause		n.
Serious eye damage/eye irritation	0	ntact with eyes may caus		
Respiratory or skin sensitiz	ation			
Canada - British Colum		piratory or skin sensitis	ser	
Pyrethrins (CAS 800	-	Ca		espiratory, dermal or conjunctival
Respiratory sensitizatio	n Not a res	piratory sensitizer.		
Skin sensitization		uct is not expected to ca	use skin sensitizati	on.
Germ cell mutagenicity	No data a	No data available to indicate product or any components present at greater than 0.19 mutagenic or genotoxic.		
Carcinogenicity				
ACGIH Carcinogens				
Pyrethrins (CAS 800 Canada - Manitoba OEL	,		4 Not classifiable as	s a human carcinogen.
PYRETHRUM (CAS	-	-	ot classifiable as a	human carcinogen.
IARC Monographs. Ove				
Piperonyl Butoxide (	-	3	Not classifiable as	to carcinogenicity to humans.
		This product is not expected to cause reproductive or developmental effects.		
Reproductive toxicity	This prod	uct is not expected to ca	use reproductive o	r developmental effects.
Reproductive toxicity Specific target organ toxicit single exposure	-		use reproductive o	r developmental effects.
Specific target organ toxicit	y - Not class	ified.	use reproductive o	r developmental effects.
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure	y - Not class y - Not class	ified.		r developmental effects.
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard	<ul> <li>y - Not class</li> <li>y - Not class</li> <li>May be fa</li> </ul>	ified.		r developmental effects.
Specific target organ toxicit single exposure Specific target organ toxicit	y - Not class y - Not class May be fa tion	ified.	ers airways.	r developmental effects.
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological information	y - Not class y - Not class May be fa tion	ified. ified. atal if swallowed and ente	ers airways.	r developmental effects. Test Results
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity	y - Not class y - Not class May be fa tion Very toxic	ified. ified. atal if swallowed and ente c to aquatic life with long <b>Species</b>	ers airways.	
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity <u>Components</u>	y - Not class y - Not class May be fa tion Very toxic	ified. ified. atal if swallowed and ente c to aquatic life with long <b>Species</b>	ers airways.	
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy	y - Not class y - Not class May be fa tion Very toxic	ified. ified. atal if swallowed and ente c to aquatic life with long <b>Species</b>	ers airways. lasting effects. aldson trout	
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy Aquatic	y - Not class y - Not class May be fa tion Very toxic /drotreated Ligh	ified. ified. atal if swallowed and ente to aquatic life with long <b>Species</b> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my	ers airways. lasting effects. aldson trout	Test Results
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy Aquatic Fish	y - Not class y - Not class May be fa tion Very toxic /drotreated Ligh	ified. ified. atal if swallowed and ente to aquatic life with long <b>Species</b> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my	ers airways. lasting effects. aldson trout	Test Results
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard <b>12. Ecological informat</b> Ecotoxicity Components Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea	y - Not class y - Not class May be fa tion Very toxic /drotreated Ligh	ified. ified. atal if swallowed and ente to aquatic life with long <b>Species</b> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my	ers airways. lasting effects. aldson trout	Test Results
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity <u>Components</u> Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea Aquatic	y - Not class y - Not class May be fa tion Very toxic /drotreated Ligh LC50 avy Alkylate (CA	ified. ified. atal if swallowed and enter c to aquatic life with long <u>Species</u> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my & 64741-65-7)	ers airways. lasting effects. aldson trout	<b>Test Results</b> 2.9 mg/l, 96 hours
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea Aquatic Algae	y - Not class y - Not class May be fa tion Very toxic /drotreated Ligh LC50 avy Alkylate (CA	ified. ified. atal if swallowed and enter c to aquatic life with long <u>Species</u> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my & 64741-65-7)	ers airways. lasting effects. aldson trout	<b>Test Results</b> 2.9 mg/l, 96 hours
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea Aquatic Algae Piperonyl Butoxide (CAS	y - Not class y - Not class May be fa tion Very toxic /drotreated Ligh LC50 avy Alkylate (CA	ified. ified. atal if swallowed and enter c to aquatic life with long <u>Species</u> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my & 64741-65-7)	ers airways. lasting effects. aldson trout /kiss)	<b>Test Results</b> 2.9 mg/l, 96 hours
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea Aquatic Algae Piperonyl Butoxide (CAS Aquatic	y - Not class y - Not class May be fa tion Very toxic vdrotreated Ligh LC50 avy Alkylate (CA IC50 51-03-6) LC50	ified. ified. atal if swallowed and enter t to aquatic life with long <u>Species</u> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my AS 64741-65-7) Algae Rainbow trout,don	ers airways. lasting effects. aldson trout /kiss)	Test Results 2.9 mg/l, 96 hours 30000 mg/L, 72 Hours
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity Components Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea Aquatic Algae Piperonyl Butoxide (CAS Aquatic Fish	y - Not class y - Not class May be fa tion Very toxic vdrotreated Ligh LC50 avy Alkylate (CA IC50 51-03-6) LC50	ified. ified. atal if swallowed and enter t to aquatic life with long <u>Species</u> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my AS 64741-65-7) Algae Rainbow trout,don	ers airways. lasting effects. aldson trout /kiss)	Test Results 2.9 mg/l, 96 hours 30000 mg/L, 72 Hours
Specific target organ toxicit single exposure Specific target organ toxicit repeated exposure Aspiration hazard 12. Ecological informat Ecotoxicity <u>Components</u> Distillates (petroleum), Hy Aquatic Fish Naphtha (petroleum), Hea Aquatic Algae Piperonyl Butoxide (CAS Aquatic Fish Pyrethrins (CAS 8003-34	y - Not class y - Not class May be fa tion Very toxic vdrotreated Ligh LC50 avy Alkylate (CA IC50 51-03-6) LC50	ified. ified. atal if swallowed and enter t to aquatic life with long <u>Species</u> t (CAS 64742-47-8) Rainbow trout,don (Oncorhynchus my AS 64741-65-7) Algae Rainbow trout,don	ers airways. lasting effects. aldson trout <sub>/kiss</sub> )	Test Results 2.9 mg/l, 96 hours 30000 mg/L, 72 Hours

Persistence and degradability No data is available on the degradability of this product. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)	
Isobutane	2.76
Piperonyl Butoxide	4.75

Partition coefficient n-o	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 consideratio	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 shipp	ng name Aerosols, flammable
Transport hazard	class(es)
Class	2.1
Subsidiary ri	sk -
Label(s)	2.1
Packing group	Not applicable.
Environmental ha	azards Yes
ERG Code	10L
Special precaution	ons for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	1
Passenger a aircraft	nd cargo Allowed with restrictions.
Cargo aircra	ft only Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipp	ng name AEROSOLS
Transport hazard	l class(es)
Class	2.1
Subsidiary ri	sk -
Label(s)	2.1
Packing group	Not applicable.
Environmental ha	azards
Marine pollu	ant Yes
EmS	F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

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

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
Version #	02
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.