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Safety Data Sheet

acc. to OSHA HCS

Printing date 09/28/2020

Reviewed on 09/28/2020

1 Identification

· Product identifier

· Product name: Custom Pesticide Mixture 3662 2000 µg/mL in Toluene:Hexane

- · Part number: DRE-Q60003662
- · Application of the substance / the mixture Reference material for laboratory use only
- \cdot Details of the supplier of the safety data sheet

• Manufacturer/Supplier: VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA

Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180

Email : lgcusa@lgcgroup.com Web : lgcstandards.com

Information department: Product safety department

eMail : sds-request@lgcgroup.com • Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

2 Hazard(s) identification

Flam. Liq. 2	H225	Highly flammable liquid and vapor.
GHS	08 Health hazard	d
Carc. 2	H351	Suspected of causing cancer.
Repr. 2	H361-H362	Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
**	09 Environment	



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•		(Contd. of pa
	GHS07	
Acute To:	. 4 H302	Harmful if swallowed.
Skin Irrit		Causes skin irritation.
STOT SE		May cause drowsiness or dizziness.
Aquatic A	cute 2 H401	Toxic to aquatic life.
Label ele		
	el elements	
-	•	abeled according to the Globally Harmonized System (GHS).
Hazard p	ictograms	
•		
	\wedge	
		¥.,
<u> 53</u>		
	\vee \vee	
GHS02	GHS07 GHS08	GHS09
Signal w	ord Danger	
Signal w	a Dunger	
Hazard-a	etermining compon	ents of labeling:
Toluene	component of the second s	ins of mooning.
Endrin (I	·	
n-Hexane		
Heptachl	or epoxide	
Delta-HC		
Dieldrin		
	·	
Beta End		
Endrin A		
Beta-BH	C/Beta-HCH	
Lindane		
Lindane Hazard s		
Hazard s	atements	liquid and vapor.
Hazard s H225	atements Highly flammable	e liquid and vapor. wed
Hazard s H225 H302	atements Highly flammable Harmful if swallo	wed.
Hazard s H225 H302 H315	atements Highly flammable Harmful if swallo Causes skin irrita	wed. ition.
Hazard s H225 H302 H315 H351	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus	wed. ition. sing cancer.
Hazard s H225 H302 H315 H351 H361-H3	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 62 Suspected of dam	wed. ition. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children.
Hazard s H225 H302 H315 H351 H361-H3 H336	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 52 Suspected of dam May cause drows	wed. ition. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness.
Hazard s H225 H302 H315 H351 H361-H3	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 52 Suspected of dam May cause drows	wed. ition. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children.
Hazard s H225 H302 H315 H351 H361-H3 H336	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 52 Suspected of dam May cause drows May cause damag	wed. htion. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure.
Hazard s H225 H302 H315 H351 H361-H3 H336 H373 H304	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 52 Suspected of dam May cause drows May cause damag May be fatal if sw	wed. ation. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure. vallowed and enters airways.
Hazard s H225 H302 H315 H351 H361-H3 H336 H373 H304 H401	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 52 Suspected of dam May cause drows May cause damag May be fatal if sw Toxic to aquatic h	wed. ation. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure. vallowed and enters airways. life.
Hazard s H225 H302 H315 H351 H361-H3 H336 H373 H304 H401 H411	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 62 Suspected of dam May cause drows May cause damag May be fatal if sw Toxic to aquatic l Toxic to aquatic l	wed. ation. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure. vallowed and enters airways.
Hazard s H225 H302 H315 H351 H361-H3 H336 H373 H304 H401 H401 H411 Precautia	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 62 Suspected of dam May cause drows May cause damag May be fatal if sw Toxic to aquatic l Toxic to aquatic l nary statements	wed. ation. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure. vallowed and enters airways. life. ife with long lasting effects.
Hazard s H225 H302 H315 H351 H361-H3 H336 H373 H304 H401 H401 H411 Precautia P263	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 62 Suspected of dam May cause drows May cause damag May be fatal if sw Toxic to aquatic h Toxic to aquatic h nary statements Avoid con	wed. ation. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure. vallowed and enters airways. life. ife with long lasting effects. tact during pregnancy/while nursing.
Hazard s H225 H302 H315 H351 H361-H3 H336 H373 H304 H401 H401 H411 Precautia	atements Highly flammable Harmful if swallo Causes skin irrita Suspected of caus 62 Suspected of dam May cause drows May cause damag May be fatal if sw Toxic to aquatic h Toxic to aquatic h nary statements Avoid con	wed. ation. sing cancer. aging fertility or the unborn child. May cause harm to breast-fed children. iness or dizziness. ge to organs through prolonged or repeated exposure. vallowed and enters airways. life. ife with long lasting effects.

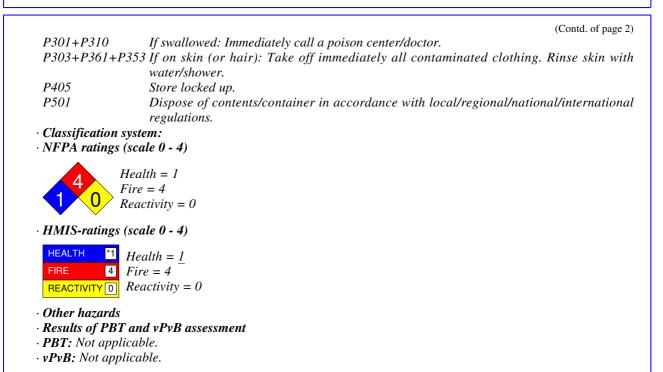
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Also contains substances at levels not considered to be hazardous.

CAS: 108-88-3	Toluene	25-50%
RTECS: XS 5250000	� Flam. Liq. 2, H225; � Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; � Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 110-54-3	n-Hexane	25-50%
RTECS: MN 9275000	 Flam. Liq. 2, H225; Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 	
CAS: 319-85-7	Beta-BHC/Beta-HCH	<0.25%
RTECS: GV 4375000	♦ Acute Tox. 3, H301;	



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CAS: 319-86-8	Delta-HCH	d. of pag
RTECS: GV 4550000	Acute Tox. 3, H301; Acute Tox. 3, H311; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332	
CAS: 58-89-9 RTECS: GV4900000	<i>Lindane</i> Acute Tox. 3, H301; Acute Tox. 3, H311; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332	<0.25
CAS: 72-54-8 RTECS: KI 0700000	4,4'-DDD	<0.25
CAS: 72-55-9 RTECS: KV9450000	4,4'-DDE Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.25
CAS: 50-29-3 RTECS: KJ 3325000	DDT Acute Tox. 3, H301; Carc. 2, H351; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 60-57-1 RTECS: 10 1750000	<i>Dieldrin (ISO)</i> ♦ Acute Tox. 3, H301; Acute Tox. 1, H310; Acute Tox. 1, H330; ♦ Carc. 2, H351; STOT RE 1, H372; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 959-98-8 RTECS: RB9275100	alpha-Endosulfan Acute Tox. 3, H301; Acute Tox. 3, H331; Acute Chronic 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312; Eye Irrit. 2A, H319	<0.25
CAS: 33213-65-9 RTECS: RB 9875200	Beta Endosulfan Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 72-20-8 RTECS: 10 1575000	Endrin (ISO) Acute Tox. 2, H300; Acute Tox. 3, H311; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 7421-93-4 RTECS: -	Endrin Aldehyde Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 76-44-8 RTECS: PC 0700000	Heptachlor (ISO) Acute Tox. 3, H301; Acute Tox. 3, H311; Carc. 2, H351; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 1024-57-3 RTECS: PB9450000	Heptachlor epoxide Acute Tox. 2, H300; Carc. 2, H351; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25
CAS: 72-43-5 RTECS: KJ 3675000	Methoxychlor (ISO) STOT SE 2, H371; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.25
CAS: 309-00-2 RTECS: 102100000	Aldrin (ISO) Acute Tox. 3, H301; Acute Tox. 3, H311; Carc. 2, H351; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25



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	(Conte	1. of page 4)
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	<0.25%
RTECS: GV3500000	Acute Tox. 3, H301; Carc. 2, H351; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312	

4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Rinse mouth. Do not induce vomiting. Immediately call a doctor. Seek medical treatment.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- *Protective equipment: Mouth respiratory protective device.*
- Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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De wet allow to	······································	(Contd. of page
	nter sewers/ surface or ground water. terial for containment and cleaning up:	
	d-binding material (sand, diatomite, acid binders, universal binders, sawdu.	st)
	nated material as waste according to item 13.	
Ensure adequate		
• Reference to othe		
	information on safe handling.	
	information on personal protection equipment. r disposal information.	
	Criteria for Chemicals	
• PAC-1:	•	
CAS: 108-88-3	Toluene	67 ppm
CAS: 110-54-3	n-Hexane	260 ppm
CAS: 58-89-9	Lindane	$9.1 mg/m^3$
CAS: 72-54-8	4,4'-DDD	2.4 mg/m^3
CAS: 72-55-9	4,4'-DDE	$6.5 mg/m^3$
	DDT	$3 mg/m^3$
CAS: 60-57-1	Dieldrin (ISO)	0.3 mg/m ³
CAS: 72-20-8	Endrin (ISO)	1.8 mg/m ³
CAS: 76-44-8	Heptachlor (ISO)	0.15 mg/m
CAS: 1024-57-3	Heptachlor epoxide	0.15 mg/m
	Methoxychlor (ISO)	30 mg/m ³
	Aldrin (ISO)	0.91 mg/m
• PAC-2:		
	Toluene	560 ppm
CAS: 110-54-3	n-Hexane	2900 ppm
CAS: 58-89-9	Lindane	100 mg/m
CAS: 72-54-8	4,4'-DDD	26 mg/m ³
	4,4'-DDE	72 mg/m ³
	DDT	34 mg/m ³
CAS: 60-57-1	Dieldrin (ISO)	6.8 mg/m ³
CAS: 72-20-8	Endrin (ISO)	20 mg/m ³
	Heptachlor (ISO)	14 mg/m^3
	Heptachlor epoxide	0.5 mg/m^3
	Methoxychlor (ISO)	150 mg/m
	Aldrin (ISO)	10 mg/m ³
• PAC-3:		.0
	Toluene	3700 ppm
	n-Hexane	8600 ppm
CAS: 58-89-9	Lindane	1,000 mg/m
C/10. J0-07-7	Linuune	(Contd. on page

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		(Contd. of page 6)
CAS: 72-54-8	4,4'-DDD	160 mg/m ³
CAS: 72-55-9	4,4'-DDE	170 mg/m ³
CAS: 50-29-3	DDT	210 mg/m³
CAS: 60-57-1	Dieldrin (ISO)	450 mg/m ³
CAS: 72-20-8	Endrin (ISO)	2,000 mg/m ³
CAS: 76-44-8	Heptachlor (ISO)	700 mg/m ³
CAS: 1024-57-3	Heptachlor epoxide	3 mg/m ³
CAS: 72-43-5	Methoxychlor (ISO)	4,500 mg/m ³
CAS: 309-00-2	Aldrin (ISO)	100 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Store in cool, dry place in tightly closed receptacles. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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Control parameters	
Components with limit values that require monitoring at the workplace:	
CAS: 108-88-3 Toluene	
PEL Long-term value: 200 ppm	
Ceiling limit value: 300; 500 ppm	
<u>10-min peak per 8-hr shift</u>	
REL Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm	
TLV Long-term value: 75 mg/m ³ , 20 ppm	
BEI	
CAS: 110-54-3 n-Hexane	
PEL Long-term value: 1800 mg/m ³ , 500 ppm	
REL Long-term value: 180 mg/m ³ , 50 ppm	
TLV Long-term value: 176 mg/m ³ , 50 ppm	
Skin; BEI	
CAS: 1024-57-3 Heptachlor epoxide	
TLV Long-term value: 0.05 mg/m ³	
Skin	
Ingredients with biological limit values:	
CAS: 108-88-3 Toluene	
BEI 0.02 mg/L	
Medium: blood	
Time: prior to last shift of workweek	
Parameter: Toluene	
0.03 mg/L	
Medium: urine	
Time: end of shift	
Parameter: Toluene	
0.3 mg/g creatinine	
Medium: urine	
Time: end of shift	
Parameter: o-Cresol with hydrolysis (background)	
CAS: 110-54-3 n-Hexane	
BEI 0.4 mg/L	
Medium: urine	
Time: end of shift at end of workweek	
Parameter: 2.5-Hexanedione without hydrolysis	
Additional information: The lists that were valid during the creation were used as basis.	
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- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- *Material of gloves* VitonTM gloves Nitrile rubber, NBR
- Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- Appearance:
 - Form: Color:

Liquid Colorless

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· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Not determined.
	Not determined.
Boiling point/Boiling range:	>35 °C (>95 °F)
· Flash point:	<23 °C (<73.4 °F)
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	Not determined
• Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity

Stable under normal conditions.

No further relevant information available.

· Chemical stability Stable under normal conditions.

• Thermal decomposition / conditions to be avoided:

- Formation of toxic gases is possible during heating or in case of fire.
- · Possibility of hazardous reactions May form flammable/explosive vapour-air mixture.

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Product name: Custom Pesticide Mixture 3662 2000 µg/mL in Toluene:Hexane

· Conditions to avoid

Sources of ignition

Heat.

· Incompatible materials: Strong oxidizing agents.

• Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 108	-88-3 Toluene	
Oral	(LD50)	636 mg/kg (rat)
Dermal	LD50	12,200 mg/kg (rabbit)
Inhalative	e LC50/4 h	49 mg/l (rat)
CAS: 110	-54-3 n-Hexane	•
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	3,000 mg/kg (rat)
CAS: 319	-86-8 Delta-HCH	
Oral	LD50	88-270 mg/kg (rat)
Dermal	LD50	900-1,000 mg/kg (rat)
Inhalative	e LC50/4 h	1.56 mg/l (rat)
CAS: 58-6	89-9 Lindane	
Oral	LD50	163 mg/kg (rat)
Dermal	LD50	900-1,000 mg/kg (rat)
Inhalative	e LC50/4 h	1.56 mg/l (rat)
CAS: 72	54-8 4,4'-DDD	•
Oral	LD50	113 mg/kg (rat)
Dermal	LD50	1,200 mg/kg (rabbit)
CAS: 72-3	55-9 4,4'-DDE	
Oral	LD50	700 mg/kg (mouse)
		880 mg/kg (rat)
CAS: 50-2	29-3 DDT	
Oral	LD50	87 mg/kg (rat)
Dermal	(LD50)	300 mg/kg (rabbit)
CAS: 60	57-1 Dieldrin (ISC	
Oral	LD50	38 mg/kg (rat)
Dermal	LD50	250 mg/kg (rat)
Inhalating	e LC50/4 h	0.013 mg/l (rat)

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Oral	LD50	76 mg/kg (rat)
	213-65-9 Beta Endosulfan	
Oral	LD50	240 mg/kg (rat)
CAS: 72-	20-8 Endrin (ISO)	
Oral	LD50	3 mg/kg (rat)
Dermal	LD50	12 mg/kg (rat)
		60 mg/kg (rabbit)
CAS: 76-	44-8 Heptachlor (ISO)	
Oral	LD50	40 mg/kg (rat)
Dermal	LD50	500 mg/kg (rabbit)
CAS: 102	24-57-3 Heptachlor epoxic	le
Oral	LD50	15 mg/kg (rat)
CAS: 72-	43-5 Methoxychlor (ISO)	
Oral	LD50	1,855 mg/kg (rat)
Dermal	LD50	>6,000 mg/kg (rabbit)
CAS: 309	0-00-2 Aldrin (ISO)	·
Oral	LD50	38 mg/kg (rat)
		50 mg/kg (rabbit)
Dermal	LD50	98 mg/kg (rat)
	LD 50 (Intraperitoneal)	150 mg/kg (rat)
CAS: 319	-84-6 Alpha-BHC/Alpha-	НСН
Oral	LD50	76 mg/kg (mouse)
		177 mg/kg (rat)

• on the eye: Based on available data, the classification criteria are not met.

· Sensitization: Based on available data, the classification criteria are not met.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

· Carcinogenic categories

· IARC (Internation	onal Agency for Research on Cancer)	
CAS: 108-88-3	Toluene	3
CAS: 319-85-7	Beta-BHC/Beta-HCH	2B
CAS: 58-89-9	Lindane	1
CAS: 50-29-3	DDT	2A
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CAS: 60-57-1	Dieldrin (ISO)	3		
CAS: 72-20-8	Endrin (ISO)	3		
CAS: 76-44-8	Heptachlor (ISO)	2B		
CAS: 1024-57-3	Heptachlor epoxide	2B		
CAS: 72-43-5	Methoxychlor (ISO)	3		
CAS: 309-00-2	Aldrin (ISO)	3		
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	2B		
· NTP (National Toxicology Program)				
CAS: 319-85-7	Beta-BHC/Beta-HCH	R		
CAS: 319-86-8	Delta-HCH	R		
CAS: 58-89-9	Lindane	R		
CAS: 50-29-3	DDT	R		
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	R		
· OSHA-Ca (Occ	· OSHA-Ca (Occupational Safety & Health Administration)			
None of the ingr	edients is listed.			

12 Ecological information

Aquatic toxicity:	
CAS: 108-88-3 Toluene	
EC50/72h 12.5 mg/l (Algae)	
LC50/96 h 31.7 mg/l (fish)	
CAS: 110-54-3 n-Hexane	
EC50/48 h 2.1 mg/l (daphnia)	
LC50/96 h 2.5 mg/l (fish)	
CAS: 319-85-7 Beta-BHC/Beta-HCH	
LC50/96 h 1.52 mg/l (fish)	
CAS: 319-86-8 Delta-HCH	
LC50/48 1.6-2.6 mg/l (daphnia)	
LC50/96 h 0.022-0.028 mg/l (fish)	
CAS: 58-89-9 Lindane	
LC50/48 0.169 mg/l (crustacean)	
EC50/72h 3.91 mg/l (Algae)	
LC50/96 h 0.0714 mg/l (fish)	
CAS: 72-54-8 4,4'-DDD	
LC50/48 0.0018 mg/l (crustacean)	



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LC50/96 h 0.056 mg/l (fish)	(Contd. of page
CAS: 72-55-9 4,4'-DDE	
LC50/96 h 0.096 mg/l (fish)	
CAS: 50-29-3 DDT	
LC50/48 0.0077 mg/l (crustacean)	
EC50/48 h 0.0011 mg/l (crustacean)	
LC50/96 h 0.008 mg/l (fish)	
CAS: 60-57-1 Dieldrin (ISO)	
LC50/48 0.0505 mg/l (crustacean)	
EC50/48 h 0.23 mg/l (daphnia)	
LC50/96 h 0.008 mg/l (fish)	
CAS: 959-98-8 alpha-Endosulfan	
EC50/72h 2.15 mg/l (Algae)	
LC50/96 h 0.002 mg/l (fish)	
CAS: 72-20-8 Endrin (ISO)	
LC50/48 0.0047 mg/l (crustacean)	
EC50/48 h 0.02 mg/l (crustacean)	
LC50/96 h 0.000505 mg/l (fish)	
CAS: 76-44-8 Heptachlor (ISO)	
LC50/48 0.078 mg/l (daphnia)	
EC50/48 h 0.04 mg/l (crustacean)	
EC50/96h 0.0332 mg/l (Algae)	
LC50/96 h 0.007 mg/l (fish)	
CAS: 1024-57-3 Heptachlor epoxide	
LC50/96 h 0.0126 mg/l (fish)	
CAS: 72-43-5 Methoxychlor (ISO)	
LC50/48 0.00078 mg/l (daphnia)	
EC50/48 h 0.0056 mg/l (crustacean)	
EC50/72h 0.6 mg/l (Algae)	
LC50/96 h 0.016 mg/l (fish)	
CAS: 309-00-2 Aldrin (ISO)	
EC50/48 h 0.03 mg/l (daphnia)	
LC50/96 h 0.01 mg/l (fish)	
CAS: 319-84-6 Alpha-BHC/Alpha-HCH	
EC50/48 h 0.9 mg/l (crustacean)	
LC50/96 h 1.5 mg/l (fish)	
Persistence and degradability No further relevant information available.	



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- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

- Toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

13 Disposal considerations

• Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Dispose in accordance with national regulations.

14 Transport information

UN-Number DOT, ADR, IMDG, IATA	UN1993
DOT	Flammable liquids, n.o.s.
ADR	1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE) ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE) MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE)
Transport hazard class(es) DOT	
Class	3 Flammable liquids
	(Contd. on page 1



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Label ADR, IMDG	3
ADR, IMDG	
× ×	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: Delt HCH
Marine pollutant:	Yes (DOT)
Special marking (ADP).	Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR):	
Special precautions for user	Warning: Flammable liquids 33
Danger code (Kemler): EMS Number:	55 F-E,S-E
Stowage Category	B
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Remarks:	Special marking with the symbol (fish and tree).
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
	1 11 1 0 0
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANE TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

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Safety, health a Sara	nd environmental regulations/legislation specific for the substance	e or mixture
	tremely hazardous substances):	
	Lindane	
CAS: 72-20-8	Endrin (ISO)	
CAS: 309-00-2	Aldrin (ISO)	
Section 313 (Sp	ecific toxic chemical listings):	
CAS: 108-88-3	Toluene	
CAS: 110-54-3	n-Hexane	
CAS: 58-89-9	Lindane	
CAS: 76-44-8	Heptachlor (ISO)	
CAS: 72-43-5	Methoxychlor (ISO)	
CAS: 309-00-2		
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	
TSCA (Toxic S	ubstances Control Act):	
CAS: 108-88-3	Toluene	ACTIVI
CAS: 110-54-3	n-Hexane	ACTIVI
CAS: 319-85-7	Beta-BHC/Beta-HCH	ACTIVI
CAS: 319-86-8		ACTIVI
CAS: 58-89-9		ACTIVI
CAS: 50-29-3		ACTIVI
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	ACTIVI
Hazardous Air	Pollutants	
CAS: 108-88-3	Toluene	
CAS: 110-54-3		
CAS: 58-89-9		
	Heptachlor (ISO)	
	Methoxychlor (ISO)	
Proposition 65		
	wn to cause cancer:	
CAS: 319-85-7	Beta-BHC/Beta-HCH	
CAS: 319-86-8	Delta-HCH	
CAS: 58-89-9	Lindane	
CAS: 72-54-8 CAS: 72-55-9	4,4'-DDD	
CAS: 72-55-9 CAS: 50-29-3	4,4'-DDE DDT	
CAS: 30-29-3	ועע	(Contd. on page 1





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		td. of page 1
CAS: 60-57-1	Dieldrin (ISO)	
CAS: 76-44-8	Heptachlor (ISO)	
	B Heptachlor epoxide	
CAS: 309-00-2	Aldrin (ISO)	
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	
	vn to cause reproductive toxicity for females:	
CAS: 50-29-3 1	DDT	
· Chemicals know	vn to cause reproductive toxicity for males:	
CAS: 110-54-3	n-Hexane	
CAS: 72-55-9	4,4'-DDE	
CAS: 50-29-3	DDT	
· Chemicals know	vn to cause developmental toxicity:	
CAS: 108-88-3	Toluene	
CAS: 72-55-9	4,4'-DDE	
CAS: 50-29-3	DDT	
CAS: 72-20-8	Endrin (ISO)	
CAS: 76-44-8	Heptachlor (ISO)	
· Carcinogenic c	ategories	
· EPA (Environn	nental Protection Agency)	
CAS: 108-88-3	Toluene	II
CAS: 110-54-3	n-Hexane	II
CAS: 319-85-7	Beta-BHC/Beta-HCH	C
CAS: 319-86-8	Delta-HCH	D
CAS: 72-54-8	4,4'-DDD	B
CAS: 72-55-9	4,4'-DDE	B
CAS: 50-29-3	DDT	<i>B</i> 2
CAS: 60-57-1	Dieldrin (ISO)	Bž
CAS: 72-20-8	Endrin (ISO)	D
CAS: 76-44-8	Heptachlor (ISO)	B
	B Heptachlor epoxide	B
CAS: 72-43-5	Methoxychlor (ISO)	D
CAS: 309-00-2	Aldrin (ISO)	B
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	B
,	d Limit Value established by ACGIH)	
CAS: 108-88-3	Toluene	A4
CAS: 58-89-9	Lindane	A3
CAS: 50-29-3	DDT	A3



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CAC CO	$\mathbf{r}_{\mathbf{r}}_{\mathbf{r}_{\mathbf{r}}}}}}}}}}$	(Contd. of page
CAS: 60-		(A
CAS: 72-		A4
CAS: 76-	<i>i-44-8 Heptachlor (ISO)</i>	A3
CAS: 102	24-57-3 Heptachlor epoxide	АЗ
CAS: 72-	-43-5 Methoxychlor (ISO)	A4
CAS: 30	9-00-2 Aldrin (ISO)	A3
NIOSH-	Ca (National Institute for Occupational Safety and Health)	
CAS: 50-	-29-3 DDT	
CAS: 60-	-57-1 Dieldrin (ISO)	
CAS: 76-		
CAS: 72-		
	9-00-2 Aldrin (ISO)	
	pictograms	
	determining components of labeling:	
	ISO) ne Nor epoxide	
Endrin (1 n-Hexan Heptachi Delta-H	ISO) ne clor epoxide CH	
Endrin (1 n-Hexan Heptach	ISO) ne clor epoxide CH c(ISO)	
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin	ISO) ae clor epoxide CH c (ISO) dosulfan	
Endrin (1 n-Hexan Heptacht Delta-HO Dieldrin Beta Ena Endrin A Beta-BH	ISO) ae clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH	
Endrin (1 n-Hexan Heptacht Delta-HO Dieldrin Beta Ena Endrin A Beta-BH Lindane	ISO) ne clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH	
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s	ISO) ae olor epoxide CH o (ISO) dosulfan Aldehyde IC/Beta-HCH statements	
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta Ena Endrin A Beta-BH Lindane Hazard s H225	ISO) ae blor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor.	
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta Ena Endrin A Beta-BH Lindane Hazard s H225 H302	ISO) ae clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed.	
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H225 H302 H315	ISO) ae clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation.	
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H225 H302 H315 H351	ISO) ae clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer.	east-fed children
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H225 H302 H315 H351 H361-H3	ISO) ae clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to bro	east-fed children.
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H325 H302 H315 H351 H361-H3 H336	ISO) ae clor epoxide CH c (ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to brow May cause drowsiness or dizziness.	east-fed children.
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H325 H302 H315 H351 H351 H361-H3 H336 H373	 ISO) ae clor epoxide CH c(ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to brow May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. 	east-fed children.
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H325 H302 H315 H351 H351 H351 H361-H3 H336 H373 H304	ISO) ae clor epoxide CH c(ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to brow May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.	east-fed children.
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H325 H302 H315 H351 H351 H361-H3 H336 H373	ISO) ae clor epoxide CH c(ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to brow May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life.	east-fed children.
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H225 H302 H315 H351 H361-H3 H361-H3 H364 H373 H304 H401 H411	ISO) ie clor epoxide CH c(ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to brow May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.	east-fed children.
Endrin (1 n-Hexan Heptachi Delta-HO Dieldrin Beta End Endrin A Beta-BH Lindane Hazard s H225 H302 H315 H351 H361-H3 H361-H3 H364 H373 H304 H401 H411	ISO) ae clor epoxide CH c(ISO) dosulfan Aldehyde IC/Beta-HCH statements Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Suspected of causing cancer. 362 Suspected of damaging fertility or the unborn child. May cause harm to brow May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life.	east-fed children.



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		(Contd. of page 19)		
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P301+P310	If swallowed: Immediately call a poison center/doctor.			
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing.	Rinse skin with		
	water/shower.			
P405	Store locked up.			
P501	Dispose of contents/container in accordance with local/regional/nation	al/international		
	regulations.			
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.				

16 Other information

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

· Date of preparation / last revision 09/28/2020 / -

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 4: Acute toxicity - Category 4 (Contd. on page 21)



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Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Carc. 1B: Carcinogenicity - Category 1B Carc. 2: Carcinogenicity - Category 2 Lact.: Reproductive toxicity - effects on or via lactation Repr. 2: Reproductive toxicity – Category 2 STOT SE 2: Specific target organ toxicity (single exposure) - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 · Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

• Data compared to the previous version altered. All sections have been updated.

US