



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Product name:** HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119
1000 µg/mL in Acetone

· **Part number:** DRE-A50000119AC

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Reference material for laboratory use only

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

LGC Limited
Queens Road
Teddington
Middlesex TW11 0LY
UNITED KINGDOM

Tel : +44 (0) 20 8943 7000
Fax : +44 (0) 20 8943 2767
eMail : gb@lgcstandards.com
Web : www.lgcstandards.com

· **Further information obtainable from:**

Product safety department
eMail : sds-request@lgcgroup.com

· **1.4 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

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Carc. 1B H350 May cause cancer.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 1)



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02



GHS07



GHS08



GHS09

· Signal word Danger

· Hazard-determining components of labelling:

Acetone
 Endosulfan sulfate
 Hexachlorobenzene
 Endrin (ISO)
 Endrin Ketone
 Heptachlor endo-epoxide
 Heptachlor epoxide
 2,4'-DDT
 Dieldrin (ISO)
 Delta-HCH

· Hazard statements

H225 Highly flammable liquid and vapour.
 H302 Harmful if swallowed.
 H319 Causes serious eye irritation.
 H350 May cause cancer.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 2)

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Contains Dicofol (ISO), quintozone (ISO). May produce an allergic reaction.
 Restricted to professional users.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:**

CAS: 87-61-6 1,2,3-trichlorobenzene

CAS: 120-82-1 1,2,4-Trichlorobenzene

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

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

· **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 RTECS: AL 3150000	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	>95%
CAS: 319-85-7 EINECS: 206-271-3 RTECS: GV 4375000	Beta-BHC/Beta-HCH Acute Tox. 3, H301; Carc. 2, H351; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312; Acute Tox. 4, H332; Lact., H362	<0.25%
CAS: 319-86-8 EINECS: 206-272-9 RTECS: GV 4550000	Delta-HCH Acute Tox. 3, H301; Acute Tox. 3, H311; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332	<0.25%
CAS: 58-89-9 EINECS: 200-401-2 RTECS: GV4900000	Lindane Acute Tox. 3, H301; Acute Tox. 3, H311; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332; Lact., H362	<0.25%
CAS: 5103-71-9 EINECS: 225-825-5 RTECS: PB9705000	cis-Chlordane Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.25%
CAS: 53-19-0 EINECS: 200-166-6 RTECS: KH 7880000	2,4'-DDD Carc. 2, H351	<0.25%
CAS: 72-54-8 EINECS: 200-783-0 RTECS: KI 0700000	4,4'-DDD Acute Tox. 3, H301; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312	<0.25%

(Contd. on page 4)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 3)

CAS: 3424-82-6 EINECS: 222-318-0 RTECS: KV9454000	2,4'-DDE ☠ Carc. 2, H351; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ! Acute Tox. 4, H302	<0.25%
CAS: 72-55-9 EINECS: 200-784-6 RTECS: KV9450000	4,4'-DDE ☠ Carc. 2, H351; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ! Acute Tox. 4, H302	<0.25%
CAS: 789-02-6 EINECS: 212-332-5 RTECS: KH7910000	2,4'-DDT ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ☠ Carc. 2, H351; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25%
CAS: 50-29-3 EINECS: 200-024-3 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 EINECS: 200-484-5 RTECS: IO 1750000	Dieldrin (ISO) ☠ 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; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ! Acute Tox. 4, H312; Eye Irrit. 2, H319	<0.25%
CAS: 33213-65-9 RTECS: RB 9875200	Beta Endosulfan ☠ Acute Tox. 3, H301; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25%
CAS: 1031-07-8 EC number: 623-765-8 RTECS: RB9150000	Endosulfan sulfate ☠ Acute Tox. 2, H300; Acute Tox. 2, H330; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ! Acute Tox. 4, H312	<0.25%
CAS: 72-20-8 EINECS: 200-775-7 RTECS: IO 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; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25%
CAS: 53494-70-5 RTECS: PC8600000	Endrin Ketone ☠ Acute Tox. 2, H300; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25%
CAS: 76-44-8 EINECS: 200-962-3 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: 28044-83-9 RTECS: -	Heptachlor endo-epoxide ☠ Acute Tox. 2, H300; ☠ Carc. 2, H351; STOT RE 2, H373; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25%
CAS: 1024-57-3 EINECS: 213-831-0 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%

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 4)		
CAS: 118-74-1 EINECS: 204-273-9 RTECS: DA 2975000	Hexachlorobenzene ☠ Carc. 1B, H350; STOT RE 1, H372; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.25%
CAS: 115-32-2 EINECS: 204-082-0 RTECS: DC 8400000	Dicofol (ISO) ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	<0.25%
CAS: 72-43-5 EINECS: 200-779-9 RTECS: KJ 3675000	Methoxychlor (ISO) ☠ STOT SE 2, H371; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.25%
CAS: 608-93-5 EINECS: 210-172-0 RTECS: DA 6640000	Pentachlorobenzene ☠ Flam. Sol. 1, H228; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.25%
CAS: 82-68-8 EINECS: 201-435-0 RTECS: DA6650000	quintozene (ISO) ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.25%
CAS: 634-66-2 EINECS: 211-214-0 RTECS: DB9440000	1,2,3,4-Tetrachlorobenzene ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.25%
CAS: 95-94-3 EINECS: 202-466-2 RTECS: DB9450000	1,2,4,5-Tetrachlorobenzene ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<0.25%
CAS: 5103-74-2 EINECS: 225-826-0 RTECS: PC0365000	trans-Chlordane ☠ Carc. 2, H351; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	<0.25%
CAS: 87-61-6 EINECS: 201-757-1 RTECS: DC2095000	1,2,3-trichlorobenzene PBT ☠ STOT RE 2, H373; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.25%
CAS: 120-82-1 EINECS: 204-428-0 RTECS: DC2100000	1,2,4-Trichlorobenzene PBT ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	<0.25%
CAS: 108-70-3 EINECS: 203-608-6 RTECS: DC2100100	1,3,5-Trichlorobenzene ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.25%
CAS: 309-00-2 EINECS: 206-215-8 RTECS: IO2100000	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%
CAS: 319-84-6 EINECS: 206-270-8 RTECS: GV3500000	Alpha-BHC/Alpha-HCH ☠ Acute Tox. 3, H301; ☠ Carc. 2, H351; STOT RE 2, H373; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312	<0.25%

(Contd. on page 6)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 5)

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

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

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse mouth. Do not induce vomiting.

Seek medical treatment.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

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

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

(Contd. on page 7)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 6)

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/extraction at the workplace.
Store in cool, dry place in tightly closed receptacles.
Open and handle receptacle with care.
Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Please refer to the manufacturer's 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 container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 67-64-1 Acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm
	Long-term value: 1210 mg/m ³ , 500 ppm

CAS: 120-82-1 1,2,4-Trichlorobenzene

WEL	Short-term value: 5 ppm
	Long-term value: 1 ppm
	Sk

· Additional information: Lists used were valid at the time of SDS preparation.

(Contd. on page 8)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

**Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone**

(Contd. from page 7)

· 8.2 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 eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **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** Butyl rubber, BR

· **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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**

· **Appearance:**

Form: Liquid

Colour: Colourless

· **Odour:** Sweetish

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

(Contd. on page 9)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 8)

· Change in condition Melting point/freezing point:	-94.7 °C
Initial boiling point and boiling range:	55.8-56.6 °C
· Flash point:	<-18 °C
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	465 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· Explosion limits: Lower:	2.6 Vol %
Upper:	13 Vol %
· Vapour pressure at 20 °C:	233 hPa
· Density at 20 °C:	0.79 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic at 20 °C:	32 mPas
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
Stable under normal conditions.
No further relevant information available.
- **10.2 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.
- **10.3 Possibility of hazardous reactions** May form flammable/explosive vapour-air mixture.
- **10.4 Conditions to avoid**
Sources of ignition
Heat.

(Contd. on page 10)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 9)

- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

- **LD/LC50 values relevant for classification:**

CAS: 67-64-1 Acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

CAS: 58-89-9 Lindane

Oral	LD50	163 mg/kg (rat)
Dermal	LD50	900-1,000 mg/kg (rat)
Inhalative	LC50/4 h	1.56 mg/l (rat)

CAS: 60-57-1 Dieldrin (ISO)

Oral	LD50	38 mg/kg (rat)
Dermal	LD50	250 mg/kg (rat)
Inhalative	LC50/4 h	0.013 mg/l (rat)

CAS: 1031-07-8 Endosulfan sulfate

Oral	LD50	18 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: 53494-70-5 Endrin Ketone

Oral	LD50	10 mg/kg (rat)
------	------	----------------

CAS: 118-74-1 Hexachlorobenzene

Oral	LD50	10,000 mg/kg (rat)
------	------	--------------------

CAS: 608-93-5 Pentachlorobenzene

Oral	LD50	1,080 mg/kg (rat)
Dermal	LD50	>2,500 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

(Contd. on page 11)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 10)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carc. 1B
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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: 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: 1031-07-8 Endosulfan sulfate

EC50/48 h	0.76 mg/l (daphnia)
LC50/96 h	0.01 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: 118-74-1 Hexachlorobenzene

LC50/48	0.0016 mg/l (daphnia)
---------	-----------------------

CAS: 608-93-5 Pentachlorobenzene

LC50/48	3.2 mg/l (crustacean)
EC50/48 h	0.01 mg/l (crustacean)
EC50/72h	13 mg/l (Algae)
EC50/96h	6.7 mg/l (Algae)
LC50/96 h	0.248 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.

(Contd. on page 12)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000 µg/mL in Acetone

(Contd. from page 11)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (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
- **12.5 Results of PBT and vPvB assessment**

· PBT:

CAS: 87-61-6	1,2,3-trichlorobenzene
CAS: 120-82-1	1,2,4-Trichlorobenzene

- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
UN1090
- **ADR, IMDG, IATA**
1090 ACETONE mixture, ENVIRONMENTALLY HAZARDOUS
- **ADR**
ACETONE mixture, MARINE POLLUTANT
- **IMDG**
ACETONE mixture
- **IATA**

(Contd. on page 13)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 12)

· 14.3 Transport hazard class(es)**· ADR, IMDG**

· Class 3 Flammable liquids.
· Label 3

· IATA

· Class 3 Flammable liquids.
· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA II

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances:
Delta-HCH

· Marine pollutant: Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Danger code (Kemler): 33

· EMS Number: F-E,S-D

· Stowage Category B

**· 14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code**

Not applicable.

· Transport/Additional information:**· ADR**

· Limited quantities (LQ) 1L

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category 2

· Tunnel restriction code D/E

· UN "Model Regulation":

UN 1090 ACETONE MIXTURE, 3, II,
ENVIRONMENTALLY HAZARDOUS

GB

(Contd. on page 14)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000
µg/mL in Acetone

(Contd. from page 13)

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28, 49

· **Regulation (EU) No 649/2012**

CAS: 319-85-7	Beta-BHC/Beta-HCH	Annex V Part 1
CAS: 58-89-9	Lindane	Annex I Part 3 Annex V Part 1
CAS: 50-29-3	DDT	Annex I Part 3 Annex V Part 1
CAS: 60-57-1	Dieldrin (ISO)	Annex I Part 3 Annex V Part 1
CAS: 72-20-8	Endrin (ISO)	Annex V Part 1
CAS: 76-44-8	Heptachlor (ISO)	Annex I Part 3 Annex V Part 1
CAS: 118-74-1	Hexachlorobenzene	Annex I Part 3 Annex V Part 1
CAS: 115-32-2	Dicofol (ISO)	Annex I Part 1 Annex I Part 2
CAS: 608-93-5	Pentachlorobenzene	Annex V Part 1
CAS: 82-68-8	quintozene (ISO)	Annex I Part 1 Annex I Part 2
CAS: 120-82-1	1,2,4-Trichlorobenzene	Annex I Part 1
CAS: 309-00-2	Aldrin (ISO)	Annex I Part 3 Annex V Part 1
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	Annex V Part 1

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 15)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2020

Version number 1

Revision: 05.08.2020

Product name: HJ 699-2014 Organochlorine Pesticides & Chlorobenzenes Mixture 119 1000 µg/mL in Acetone

(Contd. from page 14)

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 1B: Carcinogenicity – Category 1B

Carc. 2: Carcinogenicity – Category 2

Lact.: Reproductive toxicity – effects on or via lactation

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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.