Safety Data Sheet

26 Mix organochlorine pesticide in n-hexane

Version：V2.0.0.1
Report No.：BWN6495-2016-MSDS-EP
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Revision Date：-

*Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)

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

1.1 Product identifier

Product Name	26 Mix organochlorine pesticide in n-hexane
Cat No.	BWN6495-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

1.4 Emergency telephone number

Emergency telephone number	010-58103678
Opening hours	24h

2 Hazards identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707

Flammable liquids	Category 2
Aspiration hazard	Category 1
Skin Corrosion/Irritation	Category 2
Specific target organ toxicity - single exposure; narcotic effects	Category 3

Reproductive toxicity	Category 2
Specific target organ toxicity - repeated exposure	Category 1
Hazardous to the aquatic environment - long-term (chronic) hazard	Category 2

2.2 Label elements

Hazard pictograms	
Signal word	**Danger**

Hazard statements

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361f	Suspected of damaging fertility
H372	Causes damage to organs through prolonged or repeated exposure(oral, nervous system)
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

- Prevention

P201	Obtain special instructionsbefore use.
P202	Do not handle until allsafety precautions havebeen read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

- Response

P312	Call a POISON CENTRE/ doctor/… if you feel unwell.
P314	Get medical advice/ attention if you feel unwell.
P321	Specific treatment (see related instructions on the label).
P331	Do NOT induce vomiting.

P391	Collect spillage.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	Small fire: dry chemical, CO_2 or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

◆ Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

◆ Disposal

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

2.3 Other hazards

◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
Lindane	Insufficient information, temporarily unable to evaluate
δ-Hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
Quintozene	Insufficient information, temporarily unable to evaluate
Heptachlor	Insufficient information, temporarily unable to evaluate
Aldrin	Insufficient information, temporarily unable to evaluate
Dicofol	Insufficient information, temporarily unable to evaluate
Heptachlor endo-epoxide isomer	Insufficient information, temporarily unable to evaluate
Heptachlor epoxide	Insufficient information, temporarily unable to evaluate
trans-Chlordan	Insufficient information, temporarily unable to evaluate
cis-Chlordane	Insufficient information, temporarily unable to evaluate
2,2,o,p'-tetrachlorovinylidenebisbenzene	Insufficient information, temporarily unable to evaluate
alpha-Endosulfan	Insufficient information, temporarily unable to evaluate

β-Endosulfan	Insufficient information, temporarily unable to evaluate
2,2-bis(p-chlorophenyl)-1, 1-dichloroethylene	Insufficient information, temporarily unable to evaluate
Dieldrin	Insufficient information, temporarily unable to evaluate
Mitotane	Insufficient information, temporarily unable to evaluate
Endrin	Insufficient information, temporarily unable to evaluate
TDE	Insufficient information, temporarily unable to evaluate
o,p′-DDT	Insufficient information, temporarily unable to evaluate
Clofenotane	Insufficient information, temporarily unable to evaluate
Endrin aldehyde	Insufficient information, temporarily unable to evaluate
ENDOSULFAN SULFATE	Insufficient information, temporarily unable to evaluate
Methoxychlor	PBT
(3R,5R,9S,10R,11S)-1,2,2,3 ,10,11-hexachloropentacy clododecan-8-one	Insufficient information, temporarily unable to evaluate
N-hexane	Not PBT/vPvB

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
(1α,2α,3β,4α,5β,6β)-1,2,3,4 ,5,6-hexachlorocyclohexa ne	Insufficient information, temporarily unable to evaluate
(1α,2β,3α,4β,5α,6β)-1,2,3,4 ,5,6-hexachlorocyclohexa ne	Insufficient information, temporarily unable to evaluate
Lindane	Insufficient information, temporarily unable to evaluate
δ-Hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
Quintozene	Insufficient information, temporarily unable to evaluate
Heptachlor	Insufficient information, temporarily unable to evaluate
Aldrin	Insufficient information, temporarily unable to evaluate
Dicofol	Insufficient information, temporarily unable to evaluate
Heptachlor endo-epoxide isomer	Insufficient information, temporarily unable to evaluate
Heptachlor epoxide	Insufficient information, temporarily unable to evaluate
trans-Chlordan	Insufficient information, temporarily unable to evaluate
cis-Chlordane	Insufficient information, temporarily unable to evaluate
2,2,o,p'-tetrachlorovinylid enebisbenzene	Insufficient information, temporarily unable to evaluate
alpha-Endosulfan	Insufficient information, temporarily unable to evaluate
β-Endosulfan	Insufficient information, temporarily unable to evaluate
2,2-bis(p-chlorophenyl)-1, 1-dichloroethylene	Insufficient information, temporarily unable to evaluate

Dieldrin	Insufficient information, temporarily unable to evaluate
Mitotane	Insufficient information, temporarily unable to evaluate
Endrin	Insufficient information, temporarily unable to evaluate
TDE	Insufficient information, temporarily unable to evaluate
o,p′-DDT	Insufficient information, temporarily unable to evaluate
Clofenotane	Insufficient information, temporarily unable to evaluate
Endrin aldehyde	Insufficient information, temporarily unable to evaluate
ENDOSULFAN SULFATE	Insufficient information, temporarily unable to evaluate
Methoxychlor	Insufficient information, temporarily unable to evaluate
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	Insufficient information, temporarily unable to evaluate
N-hexane	Insufficient information, temporarily unable to evaluate

◆ Other

	Not applicable.

3 Composition/information on ingredients

3.1 Substance

	Not applicable

3.2 Mixture

Component	Weight % content(or range)	Classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707 [CLP]	Specific Conc. Limits, M-factors
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane CAS：319-84-6 EC：206-270-8 Index No.：-	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 4, H312; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane CAS：319-85-7 EC：206-271-3 Index No.：-	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 4, H312; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Lindane CAS：58-89-9 EC：200-401-2 Index No.：602-043-00-6	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 4, H312; Acute Toxicity - Inhalation, Category 4, H332; Reproductive Toxicity - effects on or via lactation, Additional, H362; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	M=10

δ **-Hexachlorocyclohexane** CAS：319-86-8 EC：206-272-9 Index No.：-	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 4, H312; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Quintozene CAS：82-68-8 EC：201-435-0 Index No.：609-043-00-5	0.00152	Sensitization - skin, Category 1, H317; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Heptachlor CAS：76-44-8 EC：200-962-3 Index No.：602-046-00-2	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Aldrin CAS：309-00-2 EC：206-215-8 Index No.：602-048-00-3	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Dicofol CAS：115-32-2 EC：204-082-0 Index No.：603-044-00-4	0.00152	Acute Toxicity - Oral, Category 4, H302; Acute Toxicity - Dermal, Category 4, H312; Skin Corrosion/Irritation, Category 2, H315; Sensitization - skin, Category 1, H317; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Heptachlor endo-epoxide isomer CAS：28044-83-9 EC：634-785-1 Index No.：-	0.00152	Acute Toxicity - Oral, Category 3, H301; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Heptachlor epoxide CAS：1024-57-3 EC：213-831-0 Index No.：602-063-00-5	0.00152	Acute Toxicity - Oral, Category 3, H301; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-

trans-Chlordan CAS : 5103-74-2 EC : 225-826-0 Index No. : -	0.00152	Acute Toxicity - Oral, Category 4, H302; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	-
cis-Chlordane CAS : 5103-71-9 EC : 225-825-5 Index No. : -	0.00152	Acute Toxicity - Oral, Category 4, H302; Skin Corrosion/Irritation, Category 2, H315; Serious eye damage/irritation, Category 2, H319; Acute Toxicity - Inhalation, Category 4, H332; Specific target organ toxicity - single exposure; respiratory tract irritation, Category 3, H335; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
2,2,o,p'-tetrachlorovinylidenebisbenzene CAS : 3424-82-6 EC : 222-318-0 Index No. : -	0.00152	Acute Toxicity - Oral, Category 4, H302; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
alpha-Endosulfan CAS : 959-98-8 EC : 625-034-9 Index No. : -	0.00152	Acute Toxicity - Oral, Category 3, H301; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	-
β -Endosulfan CAS : 33213-65-9 EC : 625-635-6 Index No. : -	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 2, H310; Acute Toxicity - Inhalation, Category 2, H330; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene CAS : 72-55-9 EC : 200-784-6 Index No. : -	0.00152	Acute Toxicity - Oral, Category 3, H301; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Dieldrin CAS : 60-57-1 EC : 200-484-5 Index No. : 602-049-00-9	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 2, H310; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Mitotane CAS : 53-19-0 EC : 200-166-6 Index No. : -	0.00152	Carcinogenicity, Category 2, H351	-
Endrin CAS : 72-20-8 EC : 200-775-7	0.00152	Acute Toxicity - Oral, Category 2, H300; Acute Toxicity - Dermal, Category 3, H311; Hazardous to the aquatic environment -	-

Index No.：602-051-00-X		short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	
TDE CAS：72-54-8 EC：200-783-0 Index No.：-	0.00152	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 4, H312; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
o,p′-DDT CAS：789-02-6 EC：212-332-5 Index No.：-	0.00152	Acute Toxicity - Oral, Category 3, H301; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Clofenotane CAS：50-29-3 EC：200-024-3 Index No.：602-045-00-7	0.00152	Acute Toxicity - Oral, Category 3, H301; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
Endrin aldehyde CAS：7421-93-4 EC：- Index No.：-	0.00152	Acute Toxicity - Oral, Category 4, H302	-
ENDOSULFAN SULFATE CAS：1031-07-8 EC：- Index No.：-	0.00152	Acute Toxicity - Oral, Category 2, H300; Acute Toxicity - Dermal, Category 2, H310; Acute Toxicity - Inhalation, Category 2, H330; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	M=100;M(Chronic)=100
Methoxychlor CAS：72-43-5 EC：200-779-9 Index No.：-	0.00152	Acute Toxicity - Oral, Category 4, H302; Specific target organ toxicity - single exposure, Category 2, H371; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	-
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one CAS：53494-70-5 EC：625-032-8 Index No.：-	0.00152	Acute Toxicity - Oral, Category 2, H300	-
N-hexane CAS：110-54-3 EC：203-777-6 Index No.：601-037-00-0	99.96048	Flammable liquids, Category 2, H225; Aspiration hazard, Category 1, H304; Skin Corrosion/Irritation, Category 2, H315; Specific target organ toxicity - single exposure; narcotic effects, Category 3, H336; Reproductive toxicity, Category 2, H361; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 2,	-

		H411	

4 First-aid measures

4.1 Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention.
Inhalation	Fresh air, rest. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO_2 or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.

5.2 Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
3	Vapours may travel to source of ignition and flash back.
4	Liquid and vapour are flammable.
5	Development of hazardous combustion gases or vapor possible in the event of fire.
6	May expansion or decompose explosively when heated or involved in fire.

5.3 Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1	Avoid breathing vapours and contacting with skin and eye.
2	Beware of vapours accumulating to form explosive concentrations.
3	Vapours can accumulate in low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
6	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
7	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

1	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
2	In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
3	In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
4	Collect absorbent material using a clean, non-sparking tool.
5	Cover with anti-solvent foam to reduce evaporation.
6	Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
7	Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
8	Cut off the source of the leak as much as possible.
9	Keep leaks in a ventilated place.
10	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
11	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
12	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
13	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

1	Personal Protective Equipment advice is contained in Section 8 of the SDS.
2	Disposal considerations advice is contained in Section 13 of the SDS.

7 Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Use only non-sparking tools.
2	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
3	Use explosion proof equipment.
4	Keep away from heat/sparks/open flames/ hot surfaces.

◆ Measures to prevent aerosol and dust generation

1	Not applicable.

◆ Advice on general occupational hygiene

1	Wash hands and face after using the substances.
2	Replace the contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

7.3 Specific end use(s)

1	In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.

8 Exposure controls/personal protection

8.1 Control parameters

◆Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Germany (DFG)	-	0.5	-	4
	Austria	-	0.5(inhalable aerosol)	-	-
	Denmark	-	0.5	-	1
	Switzerland	-	1(inhalable aerosol)	-	-
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Germany (DFG)	-	0.1	-	0.8
	Denmark	-	0.5	-	1
	Switzerland	-	0.2(inhalable aerosol)	-	-
Lindane	Permissible exposure standards for workers in the workplace	-	-	-	-
	France	-	0.5	-	-
	Germany (DFG)	-	0.1	-	0.8
	Austria	-	0.5(inhalable aerosol)	-	5(inhalable aerosol)
	Belgium	-	0.5	-	-

	Denmark	-	0.5	-	1
Quintozene	Belgium	-	0.5	-	-
	Denmark	-	0.5	-	1
	Ireland	-	0.5	-	-
	New Zealand	-	0.5	-	-
	Spain	-	0.5	-	-
	Australia	-	0.5	-	-
Heptachlor	Permissible exposure standards for workers in the workplace	-	0.5	-	1.5
	France	0.03	0.5	-	-
	Germany (AGS)	-	0.05	-	0.4
	Germany (DFG)	-	0.05	-	0.4
	Austria	-	0.5(inhalable aerosol)	-	5(inhalable aerosol)
	Belgium	-	0.05	-	-
Aldrin	Permissible exposure standards for workers in the workplace	-	-	-	-
	France	-	0.25	-	-
	Germany (AGS)	-	0.25	-	2
	Austria	-	0.25(inhalable aerosol)	-	2.5(inhalable aerosol)
	Belgium	0.003	0.05	-	-
	Denmark	-	0.25	-	0.5
Heptachlor epoxide	Belgium	-	0.05	-	-
	Ireland	-	0.05	-	-
	Spain	-	0.05	-	-
	Canada - Ontario	-	0.05	-	-
	Canada - Québec	-	0.05	-	-
	South Korea	-	0.05	-	-
Dieldrin	Permissible exposure standards for workers in the workplace	-	-	-	-
	France	-	0.25	-	-
	Germany (AGS)	-	0.25	-	2
	Austria	-	0.25(inhalable aerosol)	-	0.5(inhalable aerosol)
	Belgium	-	0.1	-	-
	Denmark	-	0.25	-	0.5

Endrin	Permissible exposure standards for workers in the workplace	-	-	-	-
	France	-	0.1	-	-
	Germany (AGS)	-	0.05	-	0.4
	Germany (DFG)	-	0.05	-	0.4
	Austria	-	0.1(inhalable aerosol)	-	1(inhalable aerosol)
	Belgium	-	0.1	-	-
Clofenotane	France	-	1	-	-
	Austria	-	1(inhalable aerosol)	-	10(inhalable aerosol)
	Belgium	-	1	-	-
	Denmark	-	1	-	2
	Finland	-	1	-	3
	Hungary	-	1	-	1
Methoxychlor	France	-	10	-	-
	Germany (AGS)	-	15(inhalable aerosol)	-	120(inhalable aerosol)
	Germany (DFG)	-	1	-	8
	Austria	-	15(inhalable aerosol)	-	-
	Belgium	-	10	-	-
	Denmark	-	5	-	10
N-hexane	Japan - JSOH(2024–2025)	40	140	-	-
	Permissible exposure standards for workers in the workplace	50	176	75	220
	European Union	20	72	-	-
	France	20	72	-	-
	Germany (AGS)	50	180	400	1440
	Germany (DFG)	50	180	400	1440

◆ Biological limit values

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
Clofenotane	USA -ACGIH	Acetylcholinesterase activity(Hemoglobin adducts)	70%	End of shift	
		Butyrylcholinesterase activity(Serum	60%	End of shift	

		or Plasma)			
N-hexane	USA -ACGIH	2,5-Hexanedione, without hydrolysis(Urine)	0.5mg/L	End of shift	

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Lindane	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
δ-Hexachlorocyclohexane	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Quintozene	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Heptachlor	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Aldrin	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Dicofol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Heptachlor endo-epoxide isomer	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Heptachlor epoxide	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
trans-Chlordan	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
cis-Chlordane	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2,o,p'-tetrachlorovinylidenebisbenzene	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
alpha-Endosulfan	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
β-Endosulfan	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Dieldrin	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Mitotane	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Endrin	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
TDE	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
o,p′-DDT	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Clofenotane	Inhalation	No data available	No data available	No data available	No data available

	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Endrin aldehyde	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
ENDOSULFAN SULFATE	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Methoxychlor	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
N-hexane	Inhalation	No data available	No data available	No data available	75 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
N-hexane	No data available	No data available	No data available	No data available	No data available	No hazard identified	No data available	No potential for bioaccumulation

Note 1:

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

Note 2:

The PNEC values of the remaining components not shown in the product are not available yet.

8.2 Exposure controls

8.2.1 Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

8.2.2 Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.

Hand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	colorless liquid
Colour	colorless liquid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	-95 (N-hexane)
Initial boiling point and boiling range(°C)	69 (N-hexane)
Flash point(Closed cup,°C)	-22 (N-hexane)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit：7.5 (N-hexane)；Lower limit：1.1 (N-hexane)
Vapor pressure	17kPa (20°C,N-hexane)
Vapor density(Air = 1)	3.0 (N-hexane)
Relative density(Water=1)	0.66~0.68 (20 °C,N-hexane)
Solubility	Insoluble in water (N-hexane)
n-octanol/water partition coefficient	3.9 (N-hexane)
Auto-ignition temperature(°C)	225 (N-hexane)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available

9.2.2 Other safety characteristics

Other safety characteristics	No information available

10 Stability and reactivity

Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other

	chemical reactions.
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	In contact with an open flame may cause a fire or explosion.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	Oxidantss and halogen.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

26 Mix organochlorine pesticide in n-hexane	
Skin corrosion/irritation	Causes skin irritation(Category 2)
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Suspected of damaging fertility(Category 2)
STOT-single exposure	May cause drowsiness or dizziness(Category 3)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure(oral, nervous system)(Category 1)
Aspiration hazard	May be fatal if swallowed and enters airways(Category 1)
Germ cell mutagenicity	Based on available data, the classification criteria are not met

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
N-hexane	25000mg/kg(Rat)	No information available	169.188mg/L(Rat)
Endrin	3mg/kg(Rat)	60mg/kg(Rabbit)	No information available
alpha-Endosulfan	76mg/kg(Rat)	No information available	No information available
Heptachlor epoxide	15mg/kg(Rat)	No information available	No information available
TDE	113mg/kg(Rat)	1200mg/kg(Rabbit)	No information available
Clofenotane	113mg/kg(Rat)	300mg/kg(Rabbit)	No information available
Aldrin	39mg/kg(Rat)	15mg/kg(Rabbit)	No information available
ENDOSULFAN SULFATE	18mg/kg(Rat)	No information available	No information available
β-Endosulfan	240mg/kg(Rat)	No information available	No information available
2,2-bis(p-chlorophenyl)-1, 1-dichloroethylene	880mg/kg(Rat)	No information available	No information available
Dieldrin	38.3mg/kg(Rat)	250mg/kg(Rabbit)	0.013mg/L(Rat)
Dicofol	690mg/kg(Rat)	1870mg/kg(Rabbit)	> 5mg/L(Rat)
Heptachlor	40mg/kg(Rat)	500mg/kg(Rabbit)	No information available
(3R,5R,9S,10R,11S)-1,2,2, 3,10,11-hexachloropentacyclododecan-8-one	10mg/kg(Rat)	No information available	No information available
Quintozene	>10000mg/kg(Rat)	No information available	No information available

2,2,o,p'-tetrachlorovinylidenebisbenzene	880mg/kg(Rat)	No information available	No information available
Methoxychlor	6000mg/kg(Rat)	> 6000mg/kg(Rabbit)	No information available
trans-Chlordan	275mg/kg(Mouse)	No information available	No information available
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	177mg/kg(Rat)	No information available	No information available
cis-Chlordane	500mg/kg(Rat)	No information available	No information available
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	6000mg/kg(Rat)	No information available	No information available
Mitotane	> 5000mg/kg(Rat)	No information available	No information available
Lindane	88mg/kg(Rat)	50mg/kg(Rabbit)	No information available
δ-Hexachlorocyclohexane	1000mg/kg(Rat)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Not Listed	Category R
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Not Listed	Category R
Lindane	Category 1	Category R
δ-Hexachlorocyclohexane	Not Listed	Category R
Quintozene	Category 3	Not Listed
Heptachlor	Category 2B	Not Listed
Aldrin	Category 2A	Not Listed
Dicofol	Category 3	Not Listed
Heptachlor endo-epoxide isomer	Not Listed	Not Listed
Heptachlor epoxide	Not Listed	Not Listed
trans-Chlordan	Not Listed	Not Listed
cis-Chlordane	Not Listed	Not Listed
2,2,o,p'-tetrachlorovinylidenebisbenzene	Not Listed	Not Listed
alpha-Endosulfan	Not Listed	Not Listed
β-Endosulfan	Not Listed	Not Listed
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	Not Listed	Not Listed
Dieldrin	Category 2A(Remark 1)	Not Listed
Mitotane	Not Listed	Not Listed
Endrin	Category 3	Not Listed
TDE	Not Listed	Not Listed

o,p′-DDT	Not Listed	Not Listed
Clofenotane	Category 2A	Category R
Endrin aldehyde	Not Listed	Not Listed
ENDOSULFAN SULFATE	Not Listed	Not Listed
Methoxychlor	Category 3	Not Listed
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	Not Listed	Not Listed
N-hexane	Not Listed	Not Listed

Remark 1: see aldrin metabolized to dieldrin

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	No information available
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	No information available
Lindane	No information available
δ-Hexachlorocyclohexane	No information available
Quintozene	No information available
Heptachlor	No information available
Aldrin	No information available
Dicofol	No information available
Heptachlor endo-epoxide isomer	No information available
Heptachlor epoxide	No information available
trans-Chlordan	No information available
cis-Chlordane	No information available
2,2,o,p'-tetrachlorovinylidenebisbenzene	No information available
alpha-Endosulfan	No information available
β-Endosulfan	No information available
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	No information available
Dieldrin	No information available
Mitotane	No information available
Endrin	No information available
TDE	No information available
o,p′-DDT	No information available

Clofenotane	No information available
Endrin aldehyde	No information available
ENDOSULFAN SULFATE	No information available
Methoxychlor	No information available
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	No information available
N-hexane	No information available

11.2.2 Other Information

Other Information	See Section 11.1

12 Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Endrin	LC_{50} : 0.000505mg/L (96h)(Fish)	EC_{50} : 0.02mg/L (48h)(Crustaceans)	No information available
N-hexane	LC_{50} : 57.8mg/L (96h)(Fish)	No information available	No information available
Heptachlor epoxide	LC_{50} : 0.0126mg/L (96h)(Fish)	No information available	No information available
TDE	LC_{50} : 0.056mg/L (96h)(Fish)	EC_{50} : 0.0052mg/L (48h)(Crustaceans)	No information available
Clofenotane	LC_{50} : 0.008mg/L (96h)(Fish)	EC_{50} : 0.0011mg/L (48h)(Crustaceans)	No information available
Aldrin	LC_{50} : 0.012mg/L (96h)(Fish)	EC_{50} : 0.02mg/L (48h)(Crustaceans)	No information available
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	LC_{50} : 0.096mg/L (96h)(Fish)	EC_{50} : 0.02mg/L (48h)(Crustaceans)	No information available
Dieldrin	LC_{50} : 0.008mg/L (96h)(Fish)	EC_{50} : 0.19mg/L (48h)(Crustaceans)	No information available
Dicofol	LC_{50} : 0.28mg/L (96h)(Fish)	EC_{50} : 0.096mg/L (48h)(Crustaceans)	ErC_{50} : >19mg/L (72h)(Algae)
Heptachlor	LC_{50} : 0.018mg/L (96h)(Fish)	EC_{50} : 0.04mg/L (48h)(Crustaceans)	ErC_{50} : 0.0332mg/L (96h)(Algae)
Quintozene	LC_{50} : 0.32mg/L (96h)(Fish)	EC_{50} : 0.93mg/L (48h)(Crustaceans)	ErC_{50} : >0.91mg/L (72h)(Algae)
Methoxychlor	LC_{50} : 0.016mg/L (96h)(Fish)	EC_{50} : 0.0056mg/L (48h)(Crustaceans)	No information available
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	LC_{50} : 1.5mg/L (96h)(Fish)	EC_{50} : 0.9mg/L (48h)(Crustaceans)	No information available
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	LC_{50} : 1.52mg/L (96h)(Fish)	No information available	No information available
Lindane	LC_{50} : 0.0714mg/L	EC_{50} : 0.58mg/L	ErC_{50} : 1.62mg/L

	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)
δ-Hexachlorocyclohexane	LC_{50} : 1.21mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Dicofol	No information available	NOEC : 0.024mg/L(Crustaceans)	NOEC : 3.5mg/L(Algae)
Quintozene	No information available	NOEC : 0.084mg/L(Crustaceans)	NOEC : 0.13mg/L(Algae)

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	High(Half-life = 270 days)	Low(Half-life = 3.85 days)
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	High(Half-life = 248 days)	Low(Half-life = 3.85 days)
Lindane	High(Half-life = 240.21 days)	Low(Half-life = 3.85 days)
δ-Hexachlorocyclohexane	High(Half-life = 200 days)	Low(Half-life = 3.85 days)
Quintozene	High(Half-life = 699 days)	High(Half-life = 3663 days)
Heptachlor	Low(Half-life = 5.39 days)	Low(Half-life = 0.41 days)
Aldrin	High(Half-life = 1183.33 days)	Low(Half-life = 0.38 days)
Dicofol	High	High
2,2,o,p'-tetrachlorovinylidenebisbenzene	High	High
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	High(Half-life = 11250 days)	Low(Half-life = 1.7 days)
Dieldrin	High(Half-life = 2160 days)	Low(Half-life = 1.69 days)
Endrin	High	High
TDE	High(Half-life = 11250 days)	Low(Half-life = 5.54 days)
Clofenotane	High(Half-life = 11250 days)	Low(Half-life = 7.38 days)
Methoxychlor	High(Half-life = 365 days)	Low(Half-life = 0.47 days)
N-hexane	Low	Low

12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Medium	Log Kow=3.8
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Medium	Log Kow=3.8

Lindane	Medium	BCF=1400
δ-Hexachlorocyclohexane	Medium	Log Kow=4.14
Quintozene	High	Log Kow=4.77
Heptachlor	High	BCF=17300
Aldrin	High	BCF=20000
Dicofol	High	BCF=10000
2,2,o,p'-tetrachlorovinylidenebisbenzene	High	Log Kow=5.9956
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	High	Log Kow=6.51
Dieldrin	High	BCF=14500
Endrin	High	BCF=12600
TDE	High	Log Kow=6.02
Clofenotane	High	BCF=4020
Methoxychlor	High	Log Kow=4.68-5.08
N-hexane	Medium	Log Kow=3.9

12.4 Mobility in soil

Component	log Koc	Remark
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	3.529	
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	3.529	
Lindane	3.529	
δ-Hexachlorocyclohexane	3.529	
Quintozene	3.381	
Heptachlor	4.719	
Aldrin	5.024	
Dicofol	4.022	
2,2,o,p'-tetrachlorovinylidenebisbenzene	5.192	
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	5.183	
Dieldrin	4.025	
Endrin	4.025	
TDE	5.183	
Clofenotane	5.343	
Methoxychlor	4.629	
N-hexane	≥2.37 - ≤3.16	20 ℃， pH=7.0

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
Lindane	Insufficient information, temporarily unable to evaluate
δ-Hexachlorocyclohexane	Insufficient information, temporarily unable to evaluate
Quintozene	Insufficient information, temporarily unable to evaluate
Heptachlor	Insufficient information, temporarily unable to evaluate
Aldrin	Insufficient information, temporarily unable to evaluate
Dicofol	Insufficient information, temporarily unable to evaluate
Heptachlor endo-epoxide isomer	Insufficient information, temporarily unable to evaluate
Heptachlor epoxide	Insufficient information, temporarily unable to evaluate
trans-Chlordan	Insufficient information, temporarily unable to evaluate
cis-Chlordane	Insufficient information, temporarily unable to evaluate
2,2,o,p'-tetrachlorovinylidenebisbenzene	Insufficient information, temporarily unable to evaluate
alpha-Endosulfan	Insufficient information, temporarily unable to evaluate
β-Endosulfan	Insufficient information, temporarily unable to evaluate
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	Insufficient information, temporarily unable to evaluate
Dieldrin	Insufficient information, temporarily unable to evaluate
Mitotane	Insufficient information, temporarily unable to evaluate
Endrin	Insufficient information, temporarily unable to evaluate
TDE	Insufficient information, temporarily unable to evaluate
o,p′-DDT	Insufficient information, temporarily unable to evaluate
Clofenotane	Insufficient information, temporarily unable to evaluate
Endrin aldehyde	Insufficient information, temporarily unable to evaluate
ENDOSULFAN SULFATE	Insufficient information, temporarily unable to evaluate
Methoxychlor	PBT
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	Insufficient information, temporarily unable to evaluate
N-hexane	Not PBT/vPvB

12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
(1α,2α,3β,4α,5β,6β)-1,2,3,4	No information available

,5,6-hexachlorocyclohexane	
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	No information available
Lindane	No information available
δ-Hexachlorocyclohexane	No information available
Quintozene	No information available
Heptachlor	No information available
Aldrin	No information available
Dicofol	No information available
Heptachlor endo-epoxide isomer	No information available
Heptachlor epoxide	No information available
trans-Chlordan	No information available
cis-Chlordane	No information available
2,2,o,p'-tetrachlorovinylidenebisbenzene	No information available
alpha-Endosulfan	No information available
β-Endosulfan	No information available
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	No information available
Dieldrin	No information available
Mitotane	No information available
Endrin	No information available
TDE	No information available
o,p′-DDT	No information available
Clofenotane	No information available
Endrin aldehyde	No information available
ENDOSULFAN SULFATE	No information available
Methoxychlor	No information available
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	No information available
N-hexane	No information available

12.7 Other adverse effects

	No information available

13 Disposal considerations

13.1 Waste treatment methods

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label	

IMDG-CODE

14.1 UN number	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class	3
14.4 Packing group	Ⅱ
14.5 Environmental hazards (Yes or no)	Yes

IATA-DGR

14.1 UN number	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class	3
14.4 Packing group	Ⅱ
14.5 Environmental hazards (Yes or no)	Yes

UN-ADR

14.1 UN number	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class	3
14.4 Packing group	Ⅱ
14.5 Environmental hazards (Yes or no)	Yes

Special precautions for user

	Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

Maritime transport in bulk according to IMO instruments

◆Transport in bulk according to Annex II of MARPOL and the IBC code

	Not Available

◆Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	Not Available

◆Transport in bulk in accordance with the IGC Code

	Not Available

15 Regulatory information

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

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	×	√	√	×	×	×	×	×	√	×	×	√	√
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	√	√	√	×	×	×	×	×	√	×	×	√	√
Lindane	√	√	√	√	×	√	√	×	√	×	√	√	√
δ-Hexachlorocyclohexane	√	√	√	×	√	×	√	×	√	×	×	√	√
Quintozene	√	√	√	×	√	√	×	×	√	×	√	√	√
Heptachlor	√	√	×	×	×	√	√	×	√	×	√	√	√
Aldrin	√	√	×	×	×	√	√	×	√	×	√	√	√
Dicofol	√	√	×	×	×	√	√	×	√	×	√	√	√
Heptachlor endo-epoxide isomer	×	×	×	×	×	×	×	×	×	×	×	√	√
Heptachlor epoxide	×	√	×	×	×	×	×	×	×	×	×	√	√
trans-Chlordan	×	√	×	×	×	×	×	×	√	×	×	√	√
cis-Chlordane	×	√	×	×	×	×	×	×	√	×	×	√	√
2,2,o,p'-tetrachlorovinylidenebisbenzene	√	√	×	×	√	×	×	√	×	×	×	√	√
alpha-Endosulfan	×	×	×	×	×	×	×	×	√	×	×	√	√
β-Endosulfan	×	×	×	×	×	×	×	×	√	×	×	√	√
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	√	√	×	×	√	√	×	×	×	×	×	√	√
Dieldrin	√	√	×	×	×	√	√	×	√	×	√	√	√
Mitotane	×	√	×	√	√	×	×	×	×	×	×	√	√
Endrin	√	√	×	×	×	√	√	×	√	×	√	√	√
TDE	√	√	×	×	√	√	×	×	×	×	√	√	√
o,p′-DDT	√	√	×	×	√	×	×	×	×	×	×	√	√
Clofenotane	√	√	√	×	×	√	√	×	√	×	√	√	√
Endrin aldehyde	×	×	×	×	×	×	×	×	×	×	×	√	√
ENDOSULFAN SULFATE	×	×	×	×	×	×	×	×	×	×	×	√	√

Methoxychlor	√	√	×	√	×	√	√	×	√	×	√	√	√
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	×	×	×	×	×	×	×	×	×	×	×	√	√
N-hexane	√	√	√	√	√	√	√	√	√	√	√	√	√

【A】 China Inventory of Existing Chemical Substances(IECSC)
【B】 European Inventory of Existing Commercial Chemical Substances(EC inventory)
【C】 United States Toxic Substances Control Act Inventory(TSCA)
【D】 Canadian Domestic Substances List(DSL)
【E】 New Zealand Inventory of Chemicals(NZIoC)
【F】 Philippines Inventory of Chemicals and Chemical Substances(PICCS)
【G】 Korea Existing Chemicals Inventory(KECL)
【H】 Australian. Inventory of Industrial Chemical (AIICS)
【I】 Japan Inventory of Existing & New Chemical Substances(ENCS)
【J】 Thailand Existing Chemicals Inventory(TECI)
【K】 Mexico National Inventory of Chemical Substances (INSQ)
【L】 Russia Inventory of Existing Substances (DRAFT)
【M】 Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	A	B	C
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	×	√	×
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	×	√	×
Lindane	×	√	√
δ-Hexachlorocyclohexane	×	×	×
Quintozene	×	×	×
Heptachlor	×	√	√
Aldrin	×	√	√
Dicofol	×	√	×
Heptachlor endo-epoxide isomer	×	×	×
Heptachlor epoxide	×	×	×
trans-Chlordan	×	×	×
cis-Chlordane	×	×	×
2,2,o,p'-tetrachlorovinylidenebisbenzene	×	×	×
alpha-Endosulfan	×	√	×
β-Endosulfan	×	√	×
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	×	×	×
Dieldrin	×	√	√
Mitotane	×	×	×
Endrin	×	√	×
TDE	×	×	×

o,p'-DDT	×	×	×
Clofenotane	×	√	√
Endrin aldehyde	×	×	×
ENDOSULFAN SULFATE	×	×	×
Methoxychlor	×	√	×
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	×	×	×
N-hexane	×	×	×

【A】 The Montreal Protocol on Substances that Deplete the Ozone Layer
【B】 Stockholm Convention on Persistent Organic Pollutants (POPs)
【C】 Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	×	×	×	√	×	×	×	×	√
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	×	×	×	√	×	×	×	×	√
Lindane	×	×	×	√	×	×	×	×	√
δ-Hexachlorocyclohexane	×	×	×	√	×	×	×	×	×
Quintozene	×	×	×	√	×	×	×	×	×
Heptachlor	×	×	×	√	×	×	√	×	√
Aldrin	×	×	×	√	×	×	×	×	√
Dicofol	×	×	×	√	×	×	√	√	√
Heptachlor endo-epoxide isomer	×	×	×	×	×	×	×	×	×
Heptachlor epoxide	×	×	×	√	×	×	√	×	×
trans-Chlordan	×	×	×	√	×	×	×	×	×
cis-Chlordane	×	×	×	√	×	×	×	×	×
2,2,o,p'-tetrachlorovinylidenebisbenzene	×	×	×	√	×	×	×	×	×
alpha-Endosulfan	×	×	×	×	×	×	×	×	√
β-Endosulfan	×	×	×	×	×	×	×	×	√
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	×	×	×	√	×	×	×	×	×
Dieldrin	×	×	×	√	×	×	×	×	√
Mitotane	×	×	×	√	×	×	×	×	×
Endrin	×	×	×	√	×	×	×	×	√
TDE	×	×	×	√	×	×	×	×	×

o,p′-DDT	×	×	×	√	×	×	×	×	×
Clofenotane	×	×	×	√	×	×	×	×	√
Endrin aldehyde	×	×	×	×	×	×	×	×	×
ENDOSULFAN SULFATE	×	×	×	×	×	×	×	×	×
Methoxychlor	×	×	×	√	×	×	×	√	×
(3R,5R,9S,10R,11S)-1,2,2,3,10,11-hexachloropentacyclododecan-8-one	×	×	×	×	×	×	×	×	×
N-hexane	×	×	×	√	√	√	×	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorisation under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation – CoRAP under EU REACH
[G] List of priority substances under EU water policy （Directive 2455/2001/EC）
[H] Substances subject to POPs Regulation
[I] Substances proposed as POPs

Note:
"√" Indicates that the substance included in the regulations.
"×" No data or not included in the regulations.

German water hazard class(WGK)

Component	WGK	Remark
Lindane	WGK 3	
Aldrin	WGK 3	
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	WGK 3	
Dieldrin	WGK 3	
Endrin	WGK 3	
TDE	WGK 3	
Clofenotane	WGK 3	
N-hexane	WGK 3	

【WGK 1】 slightly hazardous to water
【WGK 2】 obviously hazardous to water
【WGK 3】 highly hazardous to water
【nwg】 non-hazardous to water
【awg】 hazardous to water in general

German technical instructions on air quality control(TA LUFT)

Component	TA LUFT	Remark
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Chapter 5.2.5 Organic Substances, class I. The following values are in	

	all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Lindane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
δ-Hexachlorocyclohexane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Quintozene	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Heptachlor	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Aldrin	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Dicofol	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.	
Heptachlor epoxide	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Dieldrin	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Endrin	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the	

	exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
TDE	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Clofenotane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	
Methoxychlor	Chapter 5.2.5 Organic Substances, dust,including fine dust.To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m³ The mass per unit volume of 0,15 g/m³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m³.	
N-hexane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:0,10 kg/hr or Mass conc.:20 mg/m³	

German technical rules for hazardous substances(TRGS)

Component	TRGS	Remark
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510	
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510	
Lindane	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 523	
δ-Hexachlorocyclohexane	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510	
Quintozene	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 800	
Heptachlor	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 402|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 523	
Aldrin	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 523	

Dicofol	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 800|TRGS 523	
Heptachlor epoxide	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510	
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 800	
Dieldrin	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 523	
Endrin	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 402|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 523	
TDE	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510	
Clofenotane	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 800|TRGS 523	
Methoxychlor	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 800	
N-hexane	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 402|TRGS 401|TRGS 500|TRGS 509|TRGS 510|TRGS 800|TRGS 720|TRGS 721|TRGS 722|TRGS 723|TRGS 724	

15.2 Chemical safety assessment

	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16 Other information

Information on revision

Creation Date	2026/01/26
Revision Date	-
Reason for revision	-

Reference

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
[5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC_{50}	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD_{50}	Lethal Dose 50%	NTP	National Toxicology Program
EC_{50}	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P_{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.