



Safety Data Sheet according to GB/T 16483-2008

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LOCTITE SI 5920 300MLEN/CH/JP

SDS No. : 152854

V001.7

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1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE SI 5920 300MLEN/CH/JP

Intended use: Silicone sealant

Manufacturer/Importer/Distributor Representative Company

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Revision date: 02.09.2022

Emergency information: +86 21 2891 8311 (24h).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Skin corrosion/irritation	Category 3	
Serious eye damage/eye irritation	Category 1	
Skin sensitizer	Category 1	
Carcinogenicity	Category 1B	
Specific target organ toxicity - single exposure	Category 2	Upper respiratory tract

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:



Signal word: Danger

Hazard statement:	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H350 May cause cancer. H371 May cause damage to the following organs:
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 If exposed or concerned: Call a POISON CENTER/doctor/... P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

3. Composition / information on ingredients

General description: Mixture
Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Oximino silane Proprietary	3- < 10 %	Flammable liquids 4 H227 Acute toxicity 5; Oral H303 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1 H317 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402
2-butanone oxime 96-29-7	1- < 2.5 %	Flammable liquids 4 H227 Acute toxicity 3; Oral H301 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1 H317 Carcinogenicity 1B H350 Specific target organ toxicity - single exposure 1 H370 Specific target organ toxicity - single exposure 3 H336 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402
Dimethylindineodecanoate 68928-76-7	0.1- < 0.25 %	Acute toxicity 4; Oral H302 Skin corrosion/irritation 2 H315 Toxic to reproduction 2 H361 Specific target organ toxicity - repeated exposure 1 H372 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
octamethylcyclotetrasiloxane 556-67-2	0.025- < 0.1 %	Flammable liquids 3 H226 Toxic to reproduction 2 H361 Chronic hazards to the aquatic environment 1 H410

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

Skin contact: Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Seek medical advice.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Ingestion: Do not induce vomiting.
Seek medical advice.

5. Fire fighting measures

Hazardous combustion products: Formaldehyde
Silica fume

Extinguishing media: Carbon dioxide, foam, powder

Fire-fighting method: In case of fire, keep containers cool with water spray.

Notice and measures for firing fighting: Wear self-contained breathing apparatus.

6. Accidental release measures

Emergency measures: Avoid contact with skin and eyes.
Do not let product enter drains.

Clean-up methods: Scrape up as much material as possible.
Ensure adequate ventilation.
Store in a partly filled, closed container until disposal.

7. Handling and storage

Notice for handling: Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.

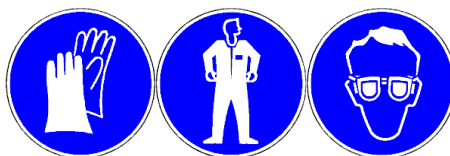
Notice for storage: Refer to Technical Data Sheet
Never allow product to get in contact with water during storage

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
Silane, dichlorodimethyl-, reaction products with silica	8 mg/m ³ PC-TWA Total dust.	3 mg/m ³ TWA Respirable particles. 10 mg/m ³ TWA Inhalable particles.		none
Diiron trioxide	8 mg/m ³ PC-TWA Total dust.	5 mg/m ³ TWA Respirable fraction.		none
Mica	1.5 mg/m ³ PC-TWA Respirable dust. 2 mg/m ³ PC-TWA Total dust.	0.1 mg/m ³ TWA Respirable fraction.		none

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:	Use only in well-ventilated areas.
Eye protection:	Wear protective glasses.
Body protection:	Chemical resistant, impermeable gloves. Impervious clothing.
Hand protection:	The use of chemical resistant gloves such as Nitrile is recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
Other protection:	The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008). Good industrial hygiene practices should be observed.

Pictograms for recommended PPE:**9. Physical and chemical properties**

Physical state:	solid	Appearance:	copper
Evaporation rate:	Not available.	Odor:	odourless
pH:	Not available.	Melting point:	Not available.
Boiling point:	Not applicable	Density:	1.03 - 1.06 g/cm ³
Vapor density:	Heavier than air	Vapor pressure:	Not available.
Flash point:	> 93 °C (> 199.4 °F)	Ignition temperature:	Not available.
Lower explosive limit:	Not available.	Upper explosive limit:	Not available.
Solubility in water	Polymerises in presence of water.	Viscosity:	Not available.
Auto-ignition temperature:	Not available.	Flammability:	Not available.
Octanol / water distribution coefficient:	Not available.	Decomposition temperature:	Not available.
VOC:	Bulk adhesive Silicone Assembly Industry < 50 g/kg, GB 33372-2020 Limit of volatile organic compounds content in adhesive		

10. Stability and reactivity

Stability:	Stable
Conditions to avoid:	Exposure to air or moisture over prolonged periods.
Incompatible products:	Polymerises in presence of water.
Decomposition products:	Methyl ethyl ketoxime formed during cure. Methanol is liberated slowly upon exposure to moisture.
Hazardous polymerization:	None under normal processing.

11. Toxicological information

General toxicological information:

No laboratory animal data available.

Oral toxicity:

Acute toxicity estimate (ATE) : > 5,000 mg/kg

Method: Calculation method

Dermal toxicity:

Acute toxicity estimate (ATE) : > 5,000 mg/kg

Method: Calculation method

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
2-butanone oxime 96-29-7	carcinogenic	inhalation: vapour	3 - 18 m 6 h/d, 5 d/w	mouse	male	EPA OTS 798.3300 (Carcinogenicity)

Other remarks:

Limited evidence of a carcinogenic effect

Contains a substance classified R40 in the EU: >1%.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Oximino silane Proprietary	LD50 Acute toxicity estimate (ATE) LD50	> 2,000 mg/kg 2,500 mg/kg > 2,009 mg/kg	oral oral dermal		rat rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) Expert judgement OECD Guideline 402 (Acute Dermal Toxicity)
2-butanone oxime 96-29-7	Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE)	100 mg/kg > 20 mg/l 1,100 mg/kg	oral inhalation dermal	4 h	not specified	Expert judgement not specified Expert judgement
Dimethyltindineodecanoat e 68928-76-7	LD50 LD50	892 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
octamethylcyclotetrasilox ane 556-67-2	LD50 LC50 LD50	> 4,800 mg/kg 36 mg/l > 2,375 mg/kg	oral inhalation dermal	4 h	rat rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Oximino silane Proprietary	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dimethylindineodecanoate 68928-76-7	irritating or corrosive	15 min	Human, EpiSkin™ (SM), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Dimethylindineodecanoate 68928-76-7	not corrosive	1 h	Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
octamethylcyclotetrasiloxane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-butanone oxime 96-29-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Dimethylindineodecanoate 68928-76-7	not irritating		Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
octamethylcyclotetrasiloxane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Oximino silane Proprietary	Sensitizing	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-butanone oxime 96-29-7	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
octamethylcyclotetrasiloxane 556-67-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Oximino silane Proprietary	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Oximino silane Proprietary	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-butanone oxime 96-29-7	negative negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without with		EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
2-butanone oxime 96-29-7	negative negative	oral: gavage oral: feed		rat Drosophila melanogaster	EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)
octamethylcyclotetrasilox ane 556-67-2	negative negative negative	bacterial gene mutation assay in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
octamethylcyclotetrasilox ane 556-67-2	negative negative	inhalation oral: gavage		rat rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Oximino silane Proprietary	LOAEL=40 mg/kg	oral: gavage	13 w5 d/week	rat	EPA OPPTS 870.3100 (90- Day Oral Toxicity in Rodents)
2-butanone oxime 96-29-7	LOAEL=40 mg/kg	oral: gavage	13 w5 d/week	rat	EPA OPPTS 870.3100 (90- Day Oral Toxicity in Rodents)
octamethylcyclotetrasilox ane 556-67-2	LOAEL=35 ppm	inhalation	6 h nose only inhalation5 days/week for 13 weeks	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
octamethylcyclotetrasilox ane 556-67-2	NOAEL=960 mg/kg	dermal	3 w5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Ecotoxicity:

Do not empty into drains / surface water / ground water.

Chronic aquatic toxicity:

This product has no known eco-toxicological effects.

Other adverse effects:
Not available.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Oximino silane Proprietary	LC50	> 560 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oximino silane Proprietary	NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Oximino silane Proprietary	EC50	201 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Oximino silane Proprietary	EC50	94 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Oximino silane Proprietary	NOEC	30 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime 96-29-7	LC50	320 - 1,000 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
2-butanone oxime 96-29-7	NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-butanone oxime 96-29-7	EC50	> 500 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
2-butanone oxime 96-29-7	EC50	11.8 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime 96-29-7	NOEC	2.56 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime 96-29-7	EC10	177 mg/l	Bacteria	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Dimethyltindineodecanoate 68928-76-7	EC50	39 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dimethyltindineodecanoate 68928-76-7	EC50	7.6 mg/l	Algae	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dimethyltindineodecanoate 68928-76-7	NOEC	1.2 mg/l	Algae	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
octamethylcyclotetrasiloxane 556-67-2	NOEC	0.0044 mg/l	Fish	93 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)
octamethylcyclotetrasiloxane 556-67-2	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish Acute Toxicity Test)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I

octamethylcyclotetrasiloxane 556-67-2	EC10	0.022 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	and II) EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Oximino silane Proprietary	not readily biodegradable.	aerobic	26 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2-butanone oxime 96-29-7	inherently biodegradable	aerobic	70 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Dimethyltindineodecanoate 68928-76-7	not readily biodegradable.	aerobic	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3.7 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-butanone oxime 96-29-7		0.5 - 0.6	42 d	Oryzias latipes	25 °C	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2-butanone oxime 96-29-7	0.65				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
Dimethyltindineodecanoate 68928-76-7	5.5					QSAR (Quantitative Structure Activity Relationship)
octamethylcyclotetrasiloxane 556-67-2		12,400	28 d	Pimephales promelas		EPA OTS 797.1520 (Fish Bioconcentration Test- Rainbow Trout)
octamethylcyclotetrasiloxane 556-67-2	6.98				21.7 °C	other guideline:

13. Disposal considerations

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

Road transport CN_DG:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Notice For Transportation:

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 29th meeting of 13nd NPC standing committee on 10th Jun 2021).

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 7th meeting of 13rd NPC standing committee on 29th Dec 2018).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 32nd State Council executive meeting on 4th December 2013).

“Regulations on License to Work Safety” (Adopted by 54th State Council executive meeting on 29th July 2014).

China Inventory of Existing Chemicals:

All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

Issue date:

11.04.2023

Issue department:

Product Safety & Regulatory Affairs for China

Disclaimer:

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H226 Flammable liquid and vapour.
H227 Combustible liquid.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H303 May be harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H402 Harmful to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.