Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 10/13/2020 Reviewed on 10/13/2020

*

1 Identification

· **Product Identifier**

· **Trade Name: Xylene Substitute**
· **Relevant identified uses of the substance or mixture and uses advised against:**
· **Product Description:** No further relevant information available.

· **Details of the Supplier of the Safety Data Sheet:**
· **Manufacturer/Supplier:**
Scientific Device Laboratory
411 Jarvis Avenue
Des Plaines, IL 60018
847-803-9495
· **Emergency telephone number:**
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) Identification

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


Flame

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


Health hazard

Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Eye Irrit. 2B	H320	Causes eye irritation.
Aquatic Acute 3	H402	Harmful to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· **Label elements:**
· **Hazard pictograms:**

· **Signal word:** Danger

· **Hazard-determining components of labeling:**
Naphtha (petroleum), hydrotreated heavy
Naphtha (petroleum), light alkylate
2,2,4-Trimethylpentane
· **Hazard statements:**
H225 Highly flammable liquid and vapor.

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H315+H320 Causes skin and eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

· ***Precautionary statements:***

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
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.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P331 Do NOT induce vomiting.
P302+P352 If on skin: Wash with plenty of water.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/doctor if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Unknown acute toxicity:***
This value refers to knowledge of known, established toxicological or ecotoxicological values.
0 % of the mixture consists of component(s) of unknown toxicity.

· ***Classification system:*** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· ***NFPA ratings (scale 0 - 4)***

Health = 1
Fire = 3
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = 1
Fire = 3
Physical Hazard = 0

· ***Hazard(s) not otherwise classified (HNOC):*** None known

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3 Composition/Information on Ingredients

· **Chemical characterization: Substance**
· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**	
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1, H304; Flam. Liq. 4, H227
CAS: 64741-66-8	Naphtha (petroleum), light alkylate Asp. Tox. 1, H304
CAS: 540-84-1 RTECS: SA 3320000	2,2,4-Trimethylpentane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336

· **Additional information:**
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· **Description of first aid measures**
· **General information:**
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in the side position for transportation.
· **After skin contact:**
Immediately wash skin with soap and plenty of water for at least 15 minutes.
Remove contaminated clothing and wash before reuse.
Get medical attention if symptoms occur.
· **After eye contact:**
Rinse opened eye for at least 15 minutes under running water.
Seek immediate medical advice.
· **After swallowing:**
Do not induce vomiting.
If vomiting ocurrs, the head should be kept low so that the vomit does not enter the lungs (aspiration). Once the vomiting ceases, place the person in the recovery position with the legs slightly raised.
Seek immediate medical advice.
· **Information for doctor**
· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture:**
Combustible liquid. Vapors can travel to a source of ignition and flash back.
Explosive mixtures may occur at temperatures at or above flashpoint.

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· ***Advice for firefighters***
· ***Special protective equipment for firefighters:***
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures:***
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
· ***Environmental precautions:*** Inform respective authorities in case of seepage into water course or sewage system.
· ***Methods and material for containment and cleaning up:***
Ensure adequate ventilation.
Use non-sparking tools for recovery and clean up.
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
· ***Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· ***Protective Action Criteria for Chemicals***

· ***PAC-1:***		
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/m³
540-84-1	2,2,4-Trimethylpentane	230 ppm

· ***PAC-2:***		
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1,800 mg/m³
540-84-1	2,2,4-Trimethylpentane	830 ppm

· ***PAC-3:***		
64742-48-9	Naphtha (petroleum), hydrotreated heavy	40,000 mg/m³
540-84-1	2,2,4-Trimethylpentane	5000* ppm

7 Handling and Storage

· ***Handling***
· ***Precautions for safe handling:***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Do not eat, drink or smoke while using product.
· ***Information about protection against explosions and fires:***
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Ground and bond container and receiving equipment. Take precautionary measures against static discharges.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and receptacles:*** Store in a cool location.
· ***Information about storage in one common storage facility:*** See Section 10 (Incompatible materials)
· ***Further information about storage conditions:***
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

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

8 Exposure Controls/Personal Protection

· ***Additional information about design of technical systems:*** No further data; see section 7.

· ***Control parameters:***

· ***Components with occupational exposure limits:***	
64742-48-9 Naphtha (petroleum), hydrotreated heavy	
TWA	Short-term value: 600 mg/m³, 100 ppm Long-term value: 300 mg/m³, 50 ppm
64741-66-8 Naphtha (petroleum), light alkylate	
TWA	Short-term value: 10 mg/m³
540-84-1 2,2,4-Trimethylpentane	
PEL	Long-term value: 2350 mg/m³, 500 ppm n-Octane only
TLV	Long-term value: 1401 mg/m³, 300 ppm

· ***Additional information:*** The lists that were valid during the creation of this SDS were used as basis.

· ***Exposure controls:***
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· ***Personal protective equipment***

· ***General protective and hygienic measures:***
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Use explosion-proof ventilation equipment.

· ***Breathing equipment:***

NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· ***Protection of hands:***

Protective gloves

· ***Material of gloves:***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· ***Penetration time of glove material:***
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· ***Eye protection:***

Tightly sealed goggles

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· **Limitation and supervision of exposure into the environment:**
Keep away from drains, surface and ground waters.
Avoid release into the environment.

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Liquid
Color:	No data available
· **Odor:**	Mild
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	≥180 °C (≥356 °F)
· **Flash point:**	17 °C (62.6 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	≥240 °C (≥464 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not self-igniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	≥0.6 Vol %
Upper:	≤7 Vol %
· **Vapor pressure @ 20 °C (68 °F):**	≤1 hPa (≤0.8 mm Hg)
· **Density:**	
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
· **Solubility in / Miscibility with:**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	50.3 %
VOC content:	50.25 %
Solids content:	0.0 %
· **Other information:**	No further relevant information available.

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10 Stability and Reactivity

· **Reactivity:** The product is stable under normal conditions.
· **Chemical stability:** Stable under normal conditions.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:** No dangerous reactions known.
· **Conditions to avoid:** Heat, flame and ignition sources.
· **Incompatible materials:** Strong oxidizing agents.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

· **Information on toxicological effects:**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>3,000 mg/kg (rab)
Inhalative	LC50/4 h	>5,000 mg/l (Rat)
	LC50/96 hours	>100 mg/l (Trout)
64741-66-8 Naphtha (petroleum), light alkylate		
Oral	LD50 Oral	>10,000 ml/kg (Rat)
Dermal	LD50	>3,160 mg/kg (Rabbit)

· **Primary irritant effect:**
· **On the skin:** Irritating effect
· **On the eye:** Irritating effect.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**
None of the ingredients are listed.

· **NTP (National Toxicology Program):**
None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**
None of the ingredients are listed.

12 Ecological Information

· **Toxicity:**
· **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

64742-48-9 Naphtha (petroleum), hydrotreated heavy	
EC50	>100 mg/l (Green algae)
	>100 mg/l (Daphnia)

· **Persistence and degradability:** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.

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· ***Ecotoxical effects:***
· ***Remark:*** Harmful to fish
· ***Additional ecological information:***
· ***General notes:***
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
Harmful to aquatic organisms
· ***Results of PBT and vPvB assessment:***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.
· ***Other adverse effects:*** No further relevant information available.

13 Disposal Considerations

· ***Waste treatment methods***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.

· ***Uncleaned packaging***
· ***Recommendation:*** Disposal must be made according to official regulations.

14 Transport Information

· ***UN-Number:***
· ***DOT, ADR/ADN, IMDG, IATA*** UN1268
· ***UN proper shipping name:***
· ***DOT*** Petroleum distillates, n.o.s.
· ***ADR/ADN*** UN1268 PETROLEUM DISTILLATES, N.O.S.
· ***IMDG*** PETROLEUM DISTILLATES, N.O.S., MARINE POLLUTANT
· ***IATA*** PETROLEUM DISTILLATES, N.O.S.
· ***Transport hazard class(es):***

· ***DOT***

· ***Class:*** 3 Flammable liquids
· ***Label:*** 3

· ***ADR/ADN***

· ***Class:*** 3 (F1) Flammable liquids
· ***Label:*** 3

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· **IMDG**

· **Class:**	3 Flammable liquids
· **Label:**	3

· **IATA**

· **Class:**	3 Flammable liquids
· **Label:**	3
· **Packing group:**	
· **DOT, ADR/ADN, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user:**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	33
· **EMS Number:**	F-E,S-E
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**	Not applicable.

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations:**	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· **Remarks:**	Special marking with the symbol (fish and tree).

· **ADR/ADN**

· **Excepted quantities (EQ):**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· **IMDG**

· **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
· **UN "Model Regulation":**	UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, II

15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

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· ***TSCA (Toxic Substances Control Act):***

64742-48-9	Naphtha (petroleum), hydrotreated heavy
64741-66-8	Naphtha (petroleum), light alkylate
540-84-1	2,2,4-Trimethylpentane

· ***California Proposition 65:***

· ***Chemicals known to cause cancer:***
None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients are listed.

· ***Chemicals known to cause developmental toxicity:***
None of the ingredients are listed.

· ***New Jersey Right-to-Know List:***

540-84-1	2,2,4-Trimethylpentane

· ***New Jersey Special Hazardous Substance List:***

540-84-1	2,2,4-Trimethylpentane	F3

· ***Pennsylvania Right-to-Know List:***

540-84-1	2,2,4-Trimethylpentane

· ***Pennsylvania Special Hazardous Substance List:***
None of the ingredients are listed.

· ***Carcinogenic categories:***

· ***EPA (Environmental Protection Agency):***

540-84-1	2,2,4-Trimethylpentane	II

· ***TLV (Threshold Limit Value established by ACGIH):***
None of the ingredients are listed.

· ***NIOSH-Ca (National Institute for Occupational Safety and Health):***
None of the ingredients are listed.

· ***GHS label elements*** The product is classified and labeled according to the Globally Harmonized System (GHS).

· ***Hazard pictograms:***

· ***Signal word:*** Danger

· ***Hazard-determining components of labeling:***
Naphtha (petroleum), hydrotreated heavy
Naphtha (petroleum), light alkylate
2,2,4-Trimethylpentane

· ***Hazard statements:***
H225 Highly flammable liquid and vapor.
H315+H320 Causes skin and eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.

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H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

· ***Precautionary statements:***

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
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.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P331	Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***National regulations:***

None of the ingredients are listed.

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

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***Date of last revision/ revision number:*** 10/13/2020 / 1

· ***Abbreviations and acronyms:***

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **** Data compared to the previous version altered.***

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