

Klüberfood NH1 4-002 Spray

Version 1.3

Revision Date 09.07.2013

Print Date 09.07.2013

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

1.1 Product identifier

Product name : Klüberfood NH1 4-002 Spray
Article-No. : 081313

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

Use of the Substance/Mixture : Lubricant spray

1.3 Details of the supplier of the safety data sheet

KLÜBER LUBRICATION MÜNCHEN
Geisenhausenerstrasse 7
D-81379 München
Deutschland
Tel: +49 (0) 897876-0
Fax: +49 (0) 897876-333

E-mail address : mcm@klueber.com
Responsible/issuing person : Material Compliance Management

National contact : Klüber Lubrication Great Britain Ltd.
Hough Mills, Northowram
Halifax, HX3 7BN
Great Britain
Tel: +44-1422-205115
Fax: +44-1422-206073
sales@uk.klueber.com

1.4 Emergency telephone number

0049 (0) 897876-700 (24hrs)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable aerosols, Category 1	H222: Extremely flammable aerosol.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable	R12: Extremely flammable.
	R66: Repeated exposure may cause skin dryness or cracking.

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Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.
P331
Storage:
P405 Store locked up.

Hazardous components which must be listed on the label:
90622-58-5 Alkanes, C11-15-iso-

Additional Labelling:

,,, S16, S 2 Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C., Do not pierce or burn, even after use., Do not spray on a naked flame or any incandescent material., Keep away from sources of ignition - No smoking., Keep out of the reach of children.

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Active agent with propellant and solvent.

Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
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Alkanes, C11-15-iso-	90622-58-5 292-460-6	Xn; R65 R66	Asp. Tox. 1; H304	>= 50 - <= 100
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	110-25-8 203-749-3	Xn; R20 Xi; R38-R41 N; R50	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 0.25 - < 1
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4 279-632-6	Xi; R36/38 N; R51/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 0.25 - < 1
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5 202-414-9	Xn; R22-R48/22 C; R34 N; R50/53	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
WEL substance :				
carbon dioxide	124-38-9 204-696-9		Press. Gas H281	< 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Seek medical advice.

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If swallowed : Keep respiratory tract clear.
Rinse mouth with water.
Move the victim to fresh air.
Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
ABC powder

Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire may cause evolution of:
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Cool containers / tanks with water spray.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.
Nonsparking tools should be used.

6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Use only in an area containing explosion proof equipment.
Do not use in areas without adequate ventilation.
Do not breathe vapours or spray mist.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after handling the product.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.
Do not use sparking tools.
These safety instructions also apply to empty packaging which may still contain product residues.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Store in accordance with the particular national regulations.

7.3 Specific end uses

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
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carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m ³	2006-02-09	2006/15/EC
Further information:	Indicative				
carbon dioxide	124-38-9	TWA	5,000 ppm 9,150 mg/m ³	2005-04-06	GB EH40
carbon dioxide	124-38-9	STEL	15,000 ppm 27,400 mg/m ³	2005-04-06	GB EH40

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Maintain air concentrations below occupational exposure standards.

Use only in an area equipped with explosion proof exhaust ventilation.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

none

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection : For prolonged or repeated contact use protective gloves.
Protective gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection : Safety glasses with side-shields conforming to EN166

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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Environmental exposure controls

General advice : Do not allow contact with soil, surface or ground water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

9. Physical and chemical properties

The data/values refer to the main component.

9.1 Information on basic physical and chemical properties

Appearance : aerosol
Colour : colourless
Odour : characteristic
Odour Threshold : no data available
pH : no data available
Melting point/range : no data available
Boiling point/boiling range : > 180 °C
Flash point : > 61 °C, Test Method: open cup, ISO 2592
Evaporation rate : no data available
Flammability (solid, gas) : Extremely flammable aerosol.
Lower explosion limit : no data available
Upper explosion limit : no data available
Vapour pressure : no data available
Relative vapour density : no data available
Density : 0.77 g/cm³, 20 °C
Water solubility : insoluble
Solubility in other solvents : no data available
Partition coefficient: n-
octanol/water : no data available
Autoignition temperature : no data available
Ignition temperature : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : 2.01 mm²/s, 40 °C
Oxidizing properties : no data available

9.2 Other information

Sublimation point : not applicable
Bulk density : not applicable

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10. Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

11. Toxicological information

11.1 Information on toxicological effects

Product

- Acute oral toxicity : This information is not available.
- Acute inhalation toxicity : Respiratory disorder, Inhalation may provoke the following symptoms:
- Acute dermal toxicity : Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.
: Skin disorders
- Skin corrosion/irritation : This information is not available.
- Serious eye damage/eye irritation : Contact with eyes may cause irritation.
- Respiratory or skin sensitization : This information is not available.
- Carcinogenicity : no data available
- Reproductive toxicity : no data available
- Teratogenicity : no data available
- Repeated dose toxicity : This information is not available.
- Aspiration toxicity : May be fatal if swallowed and enters airways.
- Further information : Information given is based on data on the components and the toxicology of similar products.

Components:

Alkanes, C11-15-iso- :

Acute oral toxicity : LD50: > 5,000 mg/kg, rat, OECD Test Guideline 401

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Acute dermal toxicity	: LD50: > 5,000 mg/kg, rabbit, OECD Test Guideline 402
Skin corrosion/irritation	: Result: Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation	: rabbit, Result: No eye irritation, Classification: No eye irritation
Respiratory or skin sensitization	: guinea pig, Result: Does not cause skin sensitization., Classification: Does not cause skin sensitization.
Aspiration toxicity	: May be fatal if swallowed and enters airways.

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine :

Acute oral toxicity	: LD50: 9,200 mg/kg, rat
Acute inhalation toxicity	: LC50: 1.37 mg/l, 4 h, rat, dust/mist
Skin corrosion/irritation	: rabbit, Result: Irritating to skin., Classification: Irritating to skin., OECD Test Guideline 404
Serious eye damage/eye irritation	: rabbit, Result: Risk of serious damage to eyes., Classification: Risk of serious damage to eyes., OECD Test Guideline 405
Respiratory or skin sensitization	: Maximisation Test, guinea pig, Result: Does not cause skin sensitization., Classification: Does not cause skin sensitization., OECD Test Guideline 406
Germ cell mutagenicity	
Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Aspiration toxicity	: No aspiration toxicity classification

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates :

Acute oral toxicity	: LD50: > 2,000 mg/kg, rat, OECD Test Guideline 401
Acute dermal toxicity	: LD50: > 2,000 mg/kg, rat, OECD Test Guideline 402
Skin corrosion/irritation	: rabbit, Result: Irritating to skin., Classification: Irritating to skin., OECD Test Guideline 404
Serious eye damage/eye irritation	: rabbit, Result: Irritating to eyes., Classification: Irritating to eyes., OECD Test Guideline 405
Respiratory or skin sensitization	: guinea pig, Result: Does not cause skin sensitization., Classification: Does not cause skin sensitization.

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

Acute oral toxicity	: LD50: 1,265 mg/kg, rat, OECD Test Guideline 401, GLP: yes
Acute dermal toxicity	: LD50: > 2,000 mg/kg, rabbit
Skin corrosion/irritation	: rabbit, Result: Corrosive, subcategory 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days., Classification: Causes burns., OECD Test Guideline 404, GLP: yes
Serious eye damage/eye	: rabbit, Result: Corrosive, Classification: Corrosive, OECD

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irritation	Test Guideline 405
Respiratory or skin sensitization	: guinea pig, Result: Does not cause skin sensitization., Classification: Does not cause skin sensitization., OECD Test Guideline 406
Repeated dose toxicity	: rat, Oral, 100 mg/kg, NOAEL: 20 mg/kg
STOT - repeated exposure	: Exposure routes: Ingestion Target Organs: Digestive organs, Prostate, Heart Assessment: May cause damage to organs through prolonged or repeated exposure.

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates.	: no data available
Toxicity to algae	: no data available
Toxicity to bacteria	: no data available

Components:

Alkanes, C11-15-iso- :

Toxicity to fish	: LC50: 2,890 mg/l, 96 h, Pimephales promelas (fathead minnow), OECD Test Guideline 203, GLP: yes
Toxicity to daphnia and other aquatic invertebrates.	: EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), Immobilization

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine :

Toxicity to fish	: LC50: 3.2 - 4.6 mg/l, 96 h, Leuciscus idus (Golden orfe), static test, Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates.	: EC50: 0.53 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae	: ErC50: 5.1 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), Growth inhibition, Directive 67/548/EEC, Annex V, C.3.
M-Factor	: 1
Toxicity to bacteria	: EC50: 1,300 mg/l, 3 h, Bacteria, Respiration inhibition, OECD 209, GLP: yes

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Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates :

- Toxicity to fish : LC50: 5.5 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates. : EC50: 1.2 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD 202 T1
- Toxicity to algae : EC50: > 10 mg/l, 72 h, Selenastrum capricornutum (green algae), Growth inhibition, OECD Test Guideline 201
- Toxicity to bacteria : EC50: > 100 mg/l, 3 h, Bacteria, Respiration inhibition, OECD 209

Ecotoxicology Assessment

- Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

- Toxicity to fish : LC50: 0.3 mg/l, 96 h, Danio rerio (zebra fish), static test, OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates. : EC50: 0.163 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes
- Toxicity to algae : ErC50: 0.2989 mg/l, 72 h, Desmodesmus subspicatus (green algae), Growth inhibition, OECD Test Guideline 201
- M-Factor : 1
- Toxicity to bacteria : EC50: 26 mg/l, 3 h, Bacteria, Respiration inhibition, OECD 209

Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product:

- Biodegradability : no data available
- Physico-chemical removability : no data available

Components:

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine :

- Biodegradability : Primary biodegradation, 85 %, Result: rapidly biodegradable, Exposure time: 28 d, activated sludge, OECD 301 B

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates :

- Biodegradability : Result: not rapidly biodegradable

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2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

Biodegradability : Primary biodegradation, Result: not rapidly biodegradable, OECD 301 B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Components:

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine :

Bioaccumulation : Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

Bioaccumulation : Bioconcentration factor (BCF): 371.8, Does not accumulate in organisms.

12.4 Mobility in soil

Product:

Mobility : no data available
Distribution among environmental compartments : no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Additional ecological information : Harmful to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.
: Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.

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14. Transport information

14.1 UN number

ADR : 1950
IMDG : 1950
IATA : 1950

14.2 Proper shipping name

ADR : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR
:
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)
IMDG
Labels : 2.1
EmS Number : F-D, S-U
IATA
Packing instruction (cargo aircraft) : 203
Labels : 2.1

14.5 Environmental hazards

ADR
Environmentally hazardous : no
IMDG
Marine pollutant : no
IATA
Environmentally hazardous : no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

15. Regulatory information

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

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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Major Accident Hazard : 96/82/EC Update: 2003
Legislation : Extremely flammable
8
Quantity 1: 10 t
Quantity 2: 50 t

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R12	Extremely flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

Full text of H-Statements referred to under sections 2 and 3.

H222	Extremely flammable aerosol.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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