

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

1.1. Product identifier

Product form : Mixture
 Product name : Neutral HCF
 Product code : 1214900
 Product group : Cleaning product.

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

1.2.1. Relevant identified uses

Main use category : Cleaner

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Star Marine Chemicals
 Bunschotenweg 134
 3089 KC Rotterdam - The Netherlands
 T +31(0)105925831
info@starmarine.nl - www.starmarine.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
 Skin corrosion/irritation, Category 2 H315
 Serious eye damage/eye irritation, Category 2 H319

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
 Hazard statements (CLP) : H302 - Harmful if swallowed.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.
 P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	15 - 30	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Ethanolamine	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 (REACH-no) 01-2119486455-28	5 - 15	Xn; R20/21/22 C; R34	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Take to hospital.
First-aid measures after skin contact	: Take off contaminated clothing. Rinse skin with water/shower. Transport to hospital immediately.
First-aid measures after eye contact	: Rinse with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice and attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Transport to hospital immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.
Symptoms/effects after skin contact	: Pungent. Pain. Redness. Severe burns.
Symptoms/effects after eye contact	: Pungent. Pain. Redness. Blurred vision.
Symptoms/effects after ingestion	: Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach.

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Powder. Foam. CO2.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None.
Explosion hazard : None.

5.3. Advice for firefighters

Precautionary measures fire : No special precautions required.
Firefighting instructions : No specific firefighting instructions required.
Other information : None known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : When using do not eat, drink or smoke. Keep container tightly closed. Keep out of frost. Keep out of reach of children.

6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid with sand or inert absorbent and remove to safe place.

6.4. Reference to other sections

See Headings 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Material should be handled with caution. Avoid spillage.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed and in well ventilated place. Keep out of frost.

Packaging materials : Suitable packing materials: Plastic packaging.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Neutral HCF		
	Limit value (mg/m ³)	Here follows a summary list of the hazardous components mentioned in paragraph 3, of which the TLV value is known: 98 mg/m ³ 2-butoxyethanol: 2.5 mg/m ³ Ethanolamine:

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

chemical resistant gloves.

Eye protection:

Safety glasses

Skin and body protection:

None.

Respiratory protection:

None.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : No data available
Odour : Characteristic.
Odour threshold : Not applicable.

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pH	: 7 at 20 °C.
pH solution	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 0 °C
Freezing point	: No data available
Boiling point	: 171 °C
Flash point	: > 80 °C
Auto-ignition temperature	: 240 °C
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: 23 hPa at 20 °C.
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.98 kg/l at 20 °C.
Solubility	: Not soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: 1.1 - 10.6 vol %

9.2. Other information

VOC content	: 31.15 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Keep container tightly closed and in well ventilated place. Keep out of frost.

10.2. Chemical stability

Acids.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Material should be handled with caution. Avoid spillage.

10.5. Incompatible materials

Metals.

10.6. Hazardous decomposition products

Acids.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

2-butoxyethanol (111-76-2)

LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Ethanolamine (141-43-5)

LD50 oral rat	1089 mg/kg
LD50 dermal rabbit	2504 mg/kg
LC50 inhalation rat (mg/l)	11 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: 7 at 20 °C.
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7 at 20 °C.
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No data available.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

2-butoxyethanol	
LC50 fish 1	1474 mg/l (Oncorhynchus mykiss, 96h)
EC50 Daphnia 1	1550 mg/l (Daphnia, 48h)
EC50 72h algae (1)	911 mg/l
NOEC chronic crustacea	> 100 mg/l (Daphnia, 72h)
NOEC chronic algae	> 280 mg/l (72h)

Ethanolamine	
LC50 fish 1	349 mg/l (Cyprinus carpio, 4d)
EC50 Daphnia 1	65 mg/l
EC50 72h algae (1)	2.1 - 2.8 mg/l
NOEC chronic fish	1.24 mg/l (Oryzias latipes, 41d)
NOEC chronic crustacea	0.85 mg/l (21d)
NOEC chronic algae	1 mg/l (72h)

12.2. Persistence and degradability

Neutral HCF	
Persistence and degradability	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Neutral HCF	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Neutral HCF	
Ecology - soil	Not soluble in water. WGK 2.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information	: No data available
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden.
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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: Not applicable
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14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 31.15 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R34	Causes burns
R36/38	Irritating to eyes and skin
C	Corrosive
Xi	Irritant

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Xn	Harmful
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product