



Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:Substance type:

NALCO CL-37
CLP Mixture

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

Use of the Substance/Mixture : ANTIFOAM

Identified uses : Waste water treatment

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet:

Company : Nalco Ltd.

P.O. BOX 11, WINNINGTON AVENUE NORTHWICH, CHESHIRE, U.K. CW8 4DX

+44 (0)1606 74488

For Product Safety information please contact:

msdseame@nalco.com

1.4 Emergency telephone number:

Emergency telephone number : +44 1618841235

+32-(0)3-575-5555 Trans-European

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Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary Statements : **Prevention**:

P264 Wash hands thoroughly after handling.

Response:

P314 Get medical advice/ attention if you feel

unwell.

Storage:

P401 Store in accordance with local regulations.

Special labelling of certain

mixtures

: Safety data sheet available on request.

Contains: A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)May produce an

allergic reaction.

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No.	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
	REACH No.	(1.12002) 111011 (20) 110 1212/2000)	[,~]
A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 01-2120764691-48	Acute toxicity Category 3; H301 Acute toxicity Category 2; H330 Acute toxicity Category 2; H330 Acute toxicity Category 2; H310 Skin corrosion Sub-category 1C; H314 Serious eye damage Category 1, H317 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410 Skin corrosion Category 1C H314 >= 0.6 % Skin irritation Category 2 H315 0.06 - < 0.6 % Eye irritation Category 2 H319 0.06 - < 0.6 % Skin sensitization Category 1A H317 >= 0.0015 % Serious eye damage Category 1 H318 >= 0.6 % M = 100 M(Chronic) = 100	0.0002 - < 0.0015

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

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled : Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water.

Get medical attention if symptoms occur.

In case of eye contact : Rinse with plenty of water.

Get medical attention if symptoms occur.

If swallowed : Rinse mouth.

Get medical attention if symptoms occur.

Protection of first-aiders : In event of emergency assess the danger before taking action.

Do not put yourself at risk of injury. If in doubt, contact

emergency responders. Use personal protective equipment as

required.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

Treatment : No specific measures identified.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

5.3 Advice for firefighters

Special protective equipment : Use personal protective equipment.

for firefighters

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

: Refer to protective measures listed in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so.

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).

Flush away traces with water.

For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Wash hands after

handling.

Hygiene measures : Wash hands before breaks and immediately after handling the

product

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep out of reach of children. Keep container tightly closed.

Store in suitable labelled containers.

Suitable material : The following compatibility data is suggested based on similar

product data and/or industry experience: HDPE (high density polyethylene), Stainless Steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is

tested prior to use.

7.3 Specific end uses

Specific use(s) : ANTIFOAM

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Eye/face protection (EN

166)

: Safety glasses

Hand protection (EN 374) : Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

Minimum thickness for butyl-rubber 0.3 mm for nitrile rubber

0.2 mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Wear suitable protective clothing.

Respiratory protection (EN

143, 14387)

: When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or

equivalent, with filter type: A-P

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Environmental exposure controls

General advice : Consider the provision of containment around storage

vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : Milky

White

Odour : Mild

Flash point

does not flash

: 6.7, 100 % pΗ

(25 °C)

Odour Threshold : no data available : Freezing Point: 0 °C

Melting point/freezing point

range

Initial boiling point and boiling : > 100 °C

Evaporation rate : no data available Flammability (solid, gas) : no data available Upper explosion limit : no data available Lower explosion limit : no data available : < 20 mm Hg (68 °C) Vapour pressure

Relative vapour density : no data available

Relative density : 0.98 (25 °C)

Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : no data available Partition coefficient: n-

octanol/water

: no data available

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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Auto-ignition temperature : no data available Thermal decomposition : no data available

Viscosity

Viscosity, dynamic : 1,500 - 2,900 mPa.s (25 °C)

Viscosity, kinematic : no data available Explosive properties : no data available Oxidizing properties : no data available

9.2 Other information

no data available

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

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 : Avoid extremes of temperature.

10.5 Incompatible materials

Materials to avoid : Contact with strong oxidizers (e.g. chlorine, peroxides,

chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or

toxic vapors.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

Toxicity

Product

Acute oral toxicity : LD50 rat: > 56,000 mg/kg

Test substance: Product

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : LD50 rabbit: > 20,000 mg/kg

Test substance: Product

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : No component of this product present at levels greater

than or equal to 0.1% is identified as probable, possible

or confirmed human carcinogen by IARC.

Reproductive effects : No toxicity to reproduction

Germ cell mutagenicity : Contains no ingredient listed as a mutagen

Teratogenicity : There is no data available for this product.

STOT - single exposure : Based on available data, the classification criteria are

not met.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : No aspiration toxicity classification

Components

Acute oral toxicity : A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

LD50 rat: 64 mg/kg

Components

Acute inhalation toxicity : A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

LC50 rat: 0.33 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Components

Acute dermal toxicity : A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

LD50 rabbit: 87.12 mg/kg

Potential Health Effects

Eyes : Health injuries are not known or expected under normal

use.

Skin : Health injuries are not known or expected under normal

use.

Ingestion : Health injuries are not known or expected under normal

use.

Inhalation : Health injuries are not known or expected under normal

use.

Chronic Exposure : Health injuries are not known or expected under normal

use

Experience with human exposure

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Further information : no data available

Section: 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product

Environmental Effects : This product has no known ecotoxicological effects.

Toxicity to fish : 96 hrs LC50 Gold Orfe: > 200 mg/l

Toxicity to daphnia and other

aquatic invertebrates

: no data available

Toxicity to algae : no data available

Components

Toxicity to fish : A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.19

mg/l

Components

Toxicity to daphnia and other

aquatic invertebrates

: A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

48 h LC50 Daphnia magna (Water flea): 0.16 mg/l

Components

Toxicity to algae : A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

72 h LC50 Skeletonema costatum (marine diatom):

0.037 mg/l

Components

Toxicity to fish (Chronic

toxicity)

: A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

72 d NOEC Oncorhynchus mykiss (rainbow trout):

0.098 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates (Chronic

toxicity)

: A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1)

21 d NOEC Daphnia magna (Water flea): 0.004 mg/l

12.2 Persistence and degradability

Product

Biodegradability : The organic portion of this preparation is expected to be

readily biodegradable.

Components

Biodegradability : A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-

methyl-2H-isothiazol-3-one (3:1)

Result: Biodegradable

12.3 Bioaccumulative potential

Product

Bioaccumulation : This preparation or material is not expected to bioaccumulate.

12.4 Mobility in soil

Product

The portion in water is expected to be soluble or dispersible.

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

No adverse effects expected.

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or

incineration.

If recycling is not practicable, dispose of contents/container in

accordance with local regulations

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Guidance for Waste Code selection

: Organic wastes containing not dangerous substances with concentration >= 0.1%. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number: Not applicable.

14.2 UN proper shipping name: PRODUCT IS NOT REGULATED DURING

TRANSPORTATION

14.3 Transport hazard class(es): Not applicable. **14.4 Packing group:** Not applicable.

14.5 Environmental hazards: No

14.6 Special precautions for user: Not applicable.

Air transport (IATA)

14.1 UN number: Not applicable.

14.2 UN proper shipping name: PRODUCT IS NOT REGULATED DURING

TRANSPORTATION

14.3 Transport hazard class(es): Not applicable. **14.4 Packing group:** Not applicable.

14.5 Environmental hazards: No

14.6 Special precautions for user: Not applicable.

Sea transport (IMDG/IMO)

14.1 UN number: Not applicable.

14.2 UN proper shipping name: PRODUCT IS NOT REGULATED DURING

TRANSPORTATION

14.3 Transport hazard class(es): Not applicable. **14.4 Packing group:** Not applicable.

14.5 Environmental hazards: No

14.6 Special precautions for user: Not applicable.14.7 Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and the IBC

Code:

Section: 15. REGULATORY INFORMATION

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Not applicable.

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

INTERNATIONAL CHEMICAL CONTROL LAWS

CANADA

This product contains substance(s) which are found on the Non-Domestic Substances List (NDSL), or are not in compliance with other Canadian Acts.

United States TSCA Inventory

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

NATIONAL REGULATIONS GERMANY

Water contaminating class : WGK 1

(Germany) Classification according to AwSV, Annex 1

15.2 Chemical Safety Assessment:

Chemical Safety Assessments have been carried out for these substances.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Not a hazardous substance or mixture.	Calculation method

Full text of H-Statements

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -

Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet

: IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization,

International Agency for Research on Cancer.

The possible key literature references and data sources which may have been used in conjunction with the consideration of expert judgment to compile this Safety Data Sheet: European regulations/directives (including (EC) No. 1907/2006, (EC) No. 1272/2008), supplier data, inter-net, ESIS, IUCLID, ERIcards, Non European official regulatory data and other data sources.

Prepared By : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Annex: Exposure Scenarios

Exposure Scenario: Waste water treatment

Life Cycle Stage : Industrial uses: Uses of substances as such or in preparations at industrial

sites

Sector of use : **SU6b** Manufacture of pulp, paper and paper products

SU23 Electricity, steam, gas water supply and sewage treatment

Contributing scenario controlling environmental exposure for:

Environmental release category : ERC4 Industrial use of processing aids in processes and products,

not becoming part of articles

Daily amount per site : 1000 kg

Type of Sewage Treatment

Plant

Standard STP

Contributing scenario controlling worker exposure for:

Process category : **PROC8a** Transfer of substance or preparation (charging/ discharging)

from/ to vessels/ large containers at non-dedicated facilities

Exposure duration : 15 min

Operational conditions and risk

management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour: 3

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : PROC4 Use in batch and other process (synthesis) where opportunity

for exposure arises

Exposure duration : 60 min

Operational conditions and risk

management measures

Outdoor

No

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : **PROC15** Use as laboratory reagent

Exposure duration : 60 min

Operational conditions and risk

management measures

Indoor

Local Exhaust Ventilation with 90% efficiency is required

General ventilation Ventilation rate per hour: 3

Skin Protection : see section 8

Respiratory Protection : see section 8

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Contributing scenario controlling worker exposure for:

Process category : PROC28 Manual maintenance (cleaning and repair) of machinery

Exposure duration : 240 min

Operational conditions and risk

management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour: 3

Skin Protection : see section 8

Respiratory Protection : see section 8