



SAFETY DATA SHEET

NIAPROOF ANIONIC SURFACTANT 4

Revision Date: June 2014

Previous date: April 2012

Print Date: June 2014

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

1.1 Product information

Commercial Product Name

NIAPROOF Anionic Surfactant 4
Chemical $C_{14}H_{29}SO_4Na$

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

Use of the Substance/Mixture

Surfactant in variety of industrial applications

Recommended restrictions on use

Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Niacet Corporation
400 47th Street
Niagara Falls, NY
14304 U.S.A.
Telephone +001 716-285-1474 Telefax +001 716-285-1497
niacetcsr@niacet.com

1.4 Emergency telephone number

For Niacet Corporation, Niagara Falls, U.S.A. products:
Chemtrec: +1 (800) 424 9300, +1 (703) 527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified.

Human health Acute Tox. 4 - H302; Acute Tox. 4 - H312; Skin Corr. 1B - H314

Environment Not classified.

Classification (1999/45/EEC) Xn; R21/22. C; R34.

Human health

Harmful in contact with skin and if swallowed. Causes severe skin burns and eye damage.



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2.2 Label elements

Contains SODIUM 7-ETHYL-2-METHYL-4-UNDECANOL SULPHATE
DIETHYLENE GLYCOL ETHYL ETHER

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P501A Dispose of contents/container to an approved company in accordance with National Regulations.

Supplementary Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264a Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

2.3 Other hazards



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical nature: NIAPROOF Anionic Surfactant 4

Formula: $C_{14}H_{29}SO_4Na$

Synonyms: NAS 4, NIAPROOF 4, sodium tetradecyl sulfate

Sodium tetradecyl sulfate (26-28%) CAS-No. 139-88-8; EC No. 205-380-3
(7 methyl 2 ethyl undecanol sulfate sodium salt)

Classification (EC 1272/2008) Acute Tox. 4-H302

Acute Tox. 4-H312

Skin Corr. 1B-H314

Classification (67/548/EEC)

Xn; R21/22

C; R34

Diethylene Glycol Ethyl Ether (20% max) CAS-No. 111-90-0; EC No. 203-919-7

Classification (EC 1272/2008) Not Classified

Classification (67/548/EEC) Not Classified

Sodium Chloride (1-2%) CAS-No. 7647-14-5; EC No. 231-598-3

Classification (EC 1272/2008) Eye Irrit. 2 – H319

Classification (67/548/EEC) Not Classified

Water (balance) CAS-No. 7732-18-5; EC No.: 231-791-2

Classification (EC 1272/2008) Not Classified

Classification (67/548/EEC) Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General

Remove contaminated clothing. Chemical burns must be treated by a physician.

Inhalation

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration.

Skin Contact

Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Rinse with water. Chemical burns must be treated by a physician.

Eye Contact

Important! Immediately rinse with water for at least 15 minutes. Hold eyelids apart. Get medical attention.

Ingestion

Rinse mouth thoroughly. Never give liquid to an unconscious person. Get medical attention.



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4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

Severe irritation in nose and throat.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

May cause blurred vision and serious eye damage.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

5. FIREFIGHTING MEASURES – NOT FLAMMABLE OR COMBUSTABLE

5.1 Extinguishing media

Extinguishing media: Water Fog, alcohol foam, carbon dioxide, dry chemical

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

5.3 Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Self-contained breathing apparatus. Wear rubber footwear. Rubber gloves are recommended. Avoid inhalation of vapours and contact with skin and eyes.

6.2 Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up

Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Wash contaminated area with water.

6.4 Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.



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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide good ventilation. Do not breathe vapour/spray. Avoid contact with skin and eyes. For personal protection, see section 8. Wash skin thoroughly after handling. Eye wash facilities and emergency shower must be available when handling this product. Observe good chemical hygiene practices. Mechanical ventilation or local exhaust ventilation is required.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 15°C and 40°C

7.3 Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.2 Exposure controls

Protective equipment



Engineering measures
Provide adequate ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Hand protection

Wear protective gloves. Chemical resistant gloves required for prolonged or repeated contact.

Eye protection

Wear approved safety glasses

Skin and body protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection

Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

Hygiene Measures

Wash hands after handling.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odour	Characteristic Mild
Solubility	Miscible with water
Initial boiling point and boiling range	100
pH-Value, Conc. Solution	10-10.5

9.2 Other data

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation : will not polymerise

10.4 Conditions to avoid

Conditions to avoid : no data available.

10.5 Incompatible materials

Materials to avoid: Strong oxidizing substances

10.6 Hazardous decomposition products

Oxides of: Carbon. Sulphur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxic Dose 1 - LD 50 4.95 ml/kg



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Information on the likely routes of exposure

Inhalation	Harmful by inhalation.
Ingestion	Harmful if swallowed
Skin contact	Harmful in contact with skin. May cause serious chemical burns to the skin.
Eye contact	Risk of serious damage to eyes.

Medical Symptoms
High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Coughing. Difficulty in breathing.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

Toxicity to other organisms

Toxicity to daphnia and other aquatic invertebrates
EC50-24 h: 4,350 mg/l – Daphnia magna (water flea)
Published data

12.2 Persistence and degradability

Biological degradability: Not Readily Biodegradable

Readily biodegradable: No Data Available

12.3 Bioaccumulative potential

Not considered as bio accumulative

12.4. Mobility in soil

No Data Available

12.5. Results of PBT and vPvB assessment

Not considered as PBT or vPvB

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

General Information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1 Waste treatment methods



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14. TRANSPORT INFORMATION

14.1 UN number

UN No. (ADR/RID/ADN)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

14.2. UN proper shipping name

Proper Shipping Name CORROSIVE LIQUID, N.O.S. (SODIUM 7-ETHYL-2-METHYL-4-UNDECANOL SULPHATE)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	80
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code



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15. REGULATORY INFORMATION

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

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment

not applicable

16. OTHER INFORMATION

Risk Phrases In Full

R34	Causes burns
R21/22	Harmful in contact with skin and if swallowed
NC	Not Classified

Hazard Statements In Full

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation

Further information

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.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Version 2.0