



SAFETY DATA SHEET

NIAPROOF ANIONIC SURFACTANT 4

Revision Date: May 2014

Previous date: January 2012

Print Date: May 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

Wetting agent, Penetrant

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 +1 716-285-1474 Telefax +1 716-285-1497
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 according to OSHA Hazards

No exposure limits have been set by OSHA, NIOSH or ACGIH

Classification according to GHS Classification

No Data Available



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2.2 Label elements

Labeling according to GHS Label elements, including precautionary statements

No Data Available

2.3 Other hazards

Inhalation	If irritation develops, remove to fresh air
Skin	Contact may cause irritation and drying of skin. Wash area with soap and water. Seek medical attention if irritation persists.
Eyes	Causes irritation and burns. Flush with water for at least 15 minutes, hold eyelids open. Seek medical attention.
Ingestion	Harmful if swallowed. Seek medical attention.

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 (7 methyl 2 ethyl undecanol sulfate sodium salt)	CAS-No. 139-88-8
Diethylene Glycol Ethyl Ether	CAS-No. 11-90-0
Sodium Chloride	CAS-No. 7647-14-5
Water	CAS-No. 7732-18-5

4. FIRST AID MEASURES

4.1 Description of first aid measures

General

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

Move the exposed person to fresh air at once. If irritation persists, consult a physician.

Skin Contact

Contact may cause irritation and drying of skin. Wash area with soap and water. Seek medical attention if irritation persists.

Eye Contact

Flush with water for at least 15 minutes, holding eyelids open. Seek medical attention

Ingestion

If swallowed, give victim milk or water to dilute stomach contents. Seek medical attention.



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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Eyes may redden and burn. Skin may be stripped of natural oils and redden.

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

Treatment : No information available.

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

Hazardous decomposition products formed under fire conditions. – Sulfur oxides, carbon monoxide

5.3 Special protective actions for fire-fighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further Information

Not Flammable or Combustible

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Ensure adequate ventilation.

6.2 Environmental precautions

Keep unnecessary people away. Isolate hazard area, enter with appropriate safety equipment. Contain spill with earthen dyke. Pump solution into a suitable container. Take up remainder with absorbent material for later disposal. Wash down area with large quantities of water

6.3 Methods and materials for containment and cleaning up

Material is more than 80% biodegradable. Dispose of in accordance with applicable Federal, state and local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Provide appropriate exhaust ventilation

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses



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Various

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limit Values

No exposure limits have been set by OSHA, NIOSH, or ACGIH

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2 Individual protection measures, such as personal protective equipment

Hand protection

Plastic or rubber gloves recommended.

Eye protection

Wear approved safety glasses

Skin and body protection

Clothing suitable to prevent skin contact.

Respiratory protection

Ventilate well and avoid breathing vapors. If airborne concentrations become irritating use a NIOSH approved respirator

Hygiene Measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information (appearance, odor)

Physical state	Liquid
Color	Colorless to Light Amber
Odor	Characteristic, mild

Important health safety and environmental information

Flash point	None – closed cup
Melting point / freezing poing	<10°C
pH	9.0-10.5
Boiling point	100°C
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	(17.5 mmHg) at 25°C
Specific Gravity	1.05-1.06 at 25°C
Water solubility	Miscible
Partition coefficient: noctanol/water	No data available
Viscosity	No data available
Relative Vapor Density	No data available
Odor Threshold	No data available
Evaporation rate	No data available



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9.2 Other data

Surface tension

no data available

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 reactions : no data available

10.4 Conditions to avoid

Conditions to avoid : no data available.

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents,

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Sulfur oxides, carbon monoxide

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50/Oral/Rat : 5 ml/kg

Irritation and corrosion

Causes irritation of eyes. Can cause irritation and drying of skin

Sensitization

Respiratory or Skin: Can cause irritation



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Long term toxicity

Carcinogenicity: OSHA: No
IARC: No
NTP: No

Reproductive: No Data Available

Specific Target Organ: No Data Available

Aspiration Hazard: No Data Available

Information on the likely routes of exposure

Inhalation

If irritation develops, remove to fresh air

Ingestion

If swallowed, give victim milk or water to dilute stomach contents. Get medical attention

Skin contact

Contact may cause irritation and drying of skin. Wash area with soap and water. Get medical attention if irritation persists.

Eye contact

Causes irritation and burns. Flush with water for at least 15 minutes, hold eyelids open. Get medical attention

Signs and Symptoms of Exposure

Eyes may redden and burn. Skin may be stripped of natural oils and redden

Additional Information

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



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12.3 Bioaccumulative potential

No Data Available

12.4. Mobility in soil

No Data Available

12.5. Results of PBT and vPvB assessment

No Data Available

12.6 Other adverse effects

Product does not have any known adverse effects on the aquatic organisms tested.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product in accordance with federal, state and local regulations

14. TRANSPORT INFORMATION

14.1 UN number Not classified as dangerous goods

DOT (US) Not classified as dangerous in the meaning of transport regulations

IMDG Not classified as dangerous in the meaning of transport regulations

IATA Not classified as dangerous in the meaning of transport regulations



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15. REGULATORY INFORMATION

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

TSCA Inventory:	Yes (all ingredients)
ENEICS:	Yes (all ingredients)
OSHA Hazard:	No
Regulated under RECRA:	No
Regulated under CERCLA:	No
Regulated under SARA Title III:	No

Pennsylvania Right-To-Know: Hazardous substance list, hazardous substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

Glycol Ethers CAS-No. None Upper bound Concentration 20%

Other regulation: None known.

15.2 Chemical Safety Assessment not applicable

16. OTHER INFORMATION

Training advice

Read the safety data sheet before using the product.

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