

Safety Data Sheet

Standapol® ES-2 K

Revision date : 2018/08/01

Version: 4.0

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(30535682/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Standapol® ES-2 K

Recommended use of the chemical and restriction on use

Recommended use*: surfactants

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Synonyms: Sodium lauryl ether sulfate

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

| | | |
|-------------------|---|--|
| Skin Corr./Irrit. | 2 | Skin corrosion/irritation |
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation |
| Aquatic Acute | 3 | Hazardous to the aquatic environment - acute |

Label elements

Pictogram:

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Signal Word:
Danger

Hazard Statement:

H318 Causes serious eye damage.
H315 Causes skin irritation.
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.
P273 Avoid release to the environment.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 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, doctor/physician or emergency number 112.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Weight %</u> | <u>Chemical name</u> |
|-------------------|-------------------|---|
| 68002-97-1 | >= 0.3 - < 1.0% | (OLIGOMER) Alcohols, C10-16, ethoxylated (> 1 < 2.5 mol EO) |
| 68585-34-2 | >= 20.0 - < 50.0% | (OLIGOMER) Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) |

4. First-Aid Measures

Description of first aid measures

If inhaled:

Fresh air.

If on skin:

After contact with skin, wash immediately with plenty of water. Remove contaminated clothing. Seek medical attention.

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If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Do not rub eyes; mechanical action may cause corneal damage. Immediate medical attention required.

If swallowed:

Call a poison control center or physician for treatment advice.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

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7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stove-lacquer 79/14/3 (Müller/CH), High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Store protected against freezing.

Storage stability:

Storage temperature: 15 - 40 °C

Protect from temperatures below: 0 °C

Below the temperature limit, the product is no longer pumpable.

Protect from temperatures above: 50 °C

Properties of the product change irreversibly on exceeding the limit temperature.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:

No special precautions necessary.

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Plastic gloves, Rubber gloves

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

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9. Physical and Chemical Properties

| | |
|---|---|
| Form: | liquid, viscous |
| Odour: | characteristic |
| Odour threshold: | not applicable |
| Colour: | colourless to yellowish clear |
| pH value: | 7.0 - 8.0 (20 °C) |
| Flash point: | > 101 °C Aqueous preparation |
| Flammability: | not flammable |
| Flammability of Aerosol Products: | not applicable, the product does not form flammable aerosoles |
| Lower explosion limit: | For liquids not relevant for classification and labelling. |
| Upper explosion limit: | For liquids not relevant for classification and labelling. |
| Autoignition: | not determined |
| Vapour pressure: | not determined |
| Density: | 1.050 g/cm3 (20 °C) |
| Vapour density: | not applicable |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable for mixtures |
| Self-ignition temperature: | not applicable |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity, dynamic: | 4,000 - 7,000 mPa*s (25 °C) |
| Viscosity, kinematic: | not determined |
| Solubility in water: | soluble |
| Solubility (qualitative): | miscible in all proportions solvent(s): distilled water, |
| Evaporation rate: | Value can be approximated from Henry's Law Constant or vapor pressure. |
| Other Information: | If necessary, information on other physical and chemical parameters is indicated in this section. No further information available. |

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Reacts with oxidizing agents. Reacts with bases. Reacts with strong acids.

Conditions to avoid

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See MSDS section 7 - Handling and storage.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Primary routes of entry

Dermal contact.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: May be harmful if swallowed in large quantities. May cause respiratory irritation.

Oral

Type of value: LD50

Value: > 2,000 mg/kg

Assessment other acute effects

Assessment of STOT single:

Based on available Data, the classification criteria are not met.

Irritation / corrosion

Assessment of irritating effects: May cause severe damage to the eyes.

Skin contact causes irritation.

Information on: (OLIGOMER) Alcohols, C10-16, ethoxylated (> 1 < 2.5 mol EO)

Assessment of irritating effects: Not irritating to eyes and skin.

Information on: (OLIGOMER) Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Aspiration Hazard

No aspiration hazard expected.

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Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

Assessment of teratogenicity: No data was available concerning toxicity to development.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 > 10 - 100 mg/l

Chronic toxicity to aquatic invertebrates

No observed effect concentration > 1 - 10 mg/l

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

EC0: > 100 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

The organic component of the product is biodegradable.

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Bioaccumulative potential

Assessment bioaccumulation potential
No data available.

Mobility in soil

Assessment transport between environmental compartments
not applicable

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

| | | |
|----------|----------|-------------------|
| Cosmetic | TSCA, US | released / exempt |
| Chemical | TSCA, US | released / listed |

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

| <u>CERCLA RQ</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|-------------------|---------------------------------|
| 5000 LBS | 7601-54-9 | Phosphoric acid, trisodium salt |
| 1000 LBS | 75-07-0 | acetaldehyde |
| 100 LBS | 123-91-1 | 1,4-dioxane |
| 10 LBS | 75-21-8 | Ethylene Oxide |

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

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WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 2 Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2018/08/01

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