

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 26.02.2018

Revision: 26.02.2018

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

- **1.1 Product identifier**
- **Trade name: SURFACT 801 RINSE AID**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Surface cleanser
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Kem Tech Industries, Inc
N8076 Maple St.
Ixonía, WI 53006
Phone: (262) 567-8020
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following hazard statements are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H360.



H360: May damage fertility or the unborn child

**H225:** Highly flammable liquid and vapor.**H315:** Causes skin irritation.**H332:** Harmful if inhaled**H370:** Causes damage to organs

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

-
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Flammable liquids (Category 2); Xi; Irritant R36: Irritating to eyes. H332: Specific organ toxicity-single exposure (Category 3)

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

-
- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms

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· Signal word: **Danger**

· Hazard statements

H319 Causes serious eye irritation. H225: Highly flammable H332: Harmful if inhaled

· Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P337+P313 present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

· Additional information: N/A

· Hazard description:

· WHMIS-symbols:



D2A - Very toxic material causing other toxic effects

· NFPA ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

· HMIS Long Term Health Hazard Substances

12179-04-3 | disodium tetraborate pentahydrate

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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· **Dangerous components:**

| | | |
|-----------------|--|------|
| CAS: 68439-46-3 | alcohols, C9-11, ethoxylated  Xi R38-41 | <30% |
| |  Eye Dam. 1, H318  Skin Irrit. 2, H315 | |
| CAS: 12179-04-3 | disodium tetraborate pentahydrate Repr. 1B, H360FD | <10% |
| |  T Repr. Cat. 2 R60-61 | |
| CAS: 67-63-0 9 | Isopropanol  Eye Irrit. 1, H319  Damage to organs: H370  Highly flammable liquid and vapor: H225 | |

· **SVHC**

12179-04-3 | disodium tetraborate pentahydrate

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **4.1 Description of first aid measures**· **General information:** Immediately remove any clothing soiled by the product.· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** Gastric or intestinal disorders· **Hazards** No further relevant information available.· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use dry chemical, foam, or carbon dioxide to extinguish
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Highly flammable liquid and vapor. Vapors may explode if ignited in an enclosed area.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away. Ground container and receiving equipment. Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water. Use only non-sparking tools. Take precautionary measures against static discharge,
- **6.3 Methods and material for containment and cleaning up:**
Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Keep from heat, sparks and open flame.

7 Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Use non-sparking equipment. Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.
Keep container tightly sealed.

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- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

102-71-6 2,2',2''-nitrilotriethanol

| | |
|-------------|---------------------------------|
| TLV (USA) | 5 mg/m ³ |
| EL (Canada) | 5 mg/m ³ |
| EV (Canada) | 3,1 mg/m ³ , 0,5 ppm |

12179-04-3 disodium tetraborate pentahydrate

| | |
|-------------|---|
| REL (USA) | 1 mg/m ³ |
| TLV (USA) | Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction |
| EL (Canada) | Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³ |
| EV (Canada) | Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³ |

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
Use suitable local and/or general exhaust in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be

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checked prior to the application.

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- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:** Rubber gloves

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

| | |
|------------------|--------------------|
| Form: | Liquid |
| Colour: | Colorless |
| Odour: | Data not available |
| Odour threshold: | Not determined. |

- **pH-value:** 7.5

- **Change in condition**

| | |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 90-100 C |

- **Flash point:** <29 C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** Data not available

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

| | |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

- **Vapour pressure:** Not determined.

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| | |
|-------------------------------------|-----------------------|
| · Density at 20 °C: | 1,2 g/cm ³ |
| · Relative density | Not determined. |
| · Specific gravity (water=1) | 1.018 |
| · Evaporation rate | Not determined. |

| | |
|--|-----------------|
| · Solubility in / Miscibility with water: | Fully miscible. |
|--|-----------------|

| | |
|---|-----------------|
| · Partition coefficient (n-octanol/water): | Not determined. |
|---|-----------------|

| | |
|---------------------|-----------------|
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

| | |
|---------------------------|-----------------|
| · Solvent content: | |
| Organic solvents: | Not determined. |

| | |
|--------------------------|-----------------|
| · Solids content: | Not determined. |
|--------------------------|-----------------|

| | |
|--------------------------------|--|
| · 9.2 Other information | No further relevant information available. |
|--------------------------------|--|

10 Stability and reactivity

- **10.1 Reactivity**
Stable under normal conditions of use and storage
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents.
- **10.4 Conditions to avoid** Keep away from heat, open flames and sparks. No smoking.
- **10.5 Incompatible materials:** May react with metallic aluminum, and generate hydrogen gas.
- **10.6 Hazardous decomposition products:** None

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

| |
|--|
| · LD/LC50 values relevant for classification: |
|--|

| |
|-----------------|
| None determined |
|-----------------|

- **Primary irritant effect:**
- **on the skin:** Slight irritant effect on skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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- **Reproductive Toxicity** : Suspected of damaging fertility of the unborn child
- **Specific Target Organ Toxicity From Single exposure**: Causes damage to organs. Do not breathe fumes, mist, vapors or spray. Wash arms, hands and face after handling.

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity**: No further relevant information available
- **12.2 Persistence and degradability** No further relevant information available
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark**: After neutralization a reduction of the harming action may be recognized.
- **Additional ecological information:**
- **General notes:**
This statement was deduced from the properties of the single components.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably reduced, the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT**: Not applicable.
- **vPvB**: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Data not available.
- **Uncleaned packaging:**
- **Recommendation**: Disposal must be made according to official regulations.
- **Recommended cleansing agents**: Water, if necessary together with cleansing agents.

14 Transport information

- **14.1 UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** UN1219

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| | |
|---|--------------------------------------|
| · 14.2 UN proper shipping name · DOT, ADR, ADN, IMDG, IATA | Isopropanol |
| · 14.3 Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class | 3 |
| · 14.4 Packing group · DOT, ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN Number | UN1219 |
| | - Hazard Placard Labels: Flammable 3 |

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

Data not available.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

Data not available

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic Categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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| | |
|---|---|
| · IARC (International Agency for Research on Cancer) | |
| None of the ingredients is listed. | 3 |

| | |
|---|----|
| · TLV (Threshold Limit Value established by ACGIH) | |
| 12179-04-3 disodium tetraborate pentahydrate | A4 |

| | |
|---|--|
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | |
| None of the ingredients is listed. | |

| | |
|--|--|
| · OSHA-Ca (Occupational Safety & Health Administration) | |
| None of the ingredients is listed. | |

| | |
|-----------------|--|
| · Canada | |
|-----------------|--|

| | |
|--|--|
| · Canadian Domestic Substances List (DSL) | |
| All ingredients are listed. | |

| | |
|---|--|
| · Canadian Ingredient Disclosure list (limit 0.1%) | |
| None of the ingredients is listed. | |

| | |
|---|--|
| · Canadian Ingredient Disclosure list (limit 1%) | |
| None of the ingredients is listed. | |

| | |
|--------------------------------|--|
| · National regulations: | |
|--------------------------------|--|

| | |
|---|--|
| · Other regulations, limitations and prohibitive regulations | |
|---|--|

| | |
|--|--|
| · Substances of very high concern (SVHC) according to REACH, Article 57 | |
| 12179-04-3 disodium tetraborate pentahydrate | |

| | |
|--|--|
| · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. | |
|--|--|

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

DISCLAIMER:

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed here in and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us.

No warranty, expressed or implied, by Kem Tech Industries, Inc assumes no legal responsibility or liability whatsoever resulting from its use.

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· Sources

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