

Version 1.3

SDS Number: 400000005188

Revision Date: 09/28/2017

SECTION 1. IDENTIFICATION

Recommended use

| Product name | : PURELL™ FOODSERVICE SURFACE SANITIZER – FINISHED PRODUCT USE ONLY | | | | |
|---|--|--|--|--|--|
| Manufacturer or supplier's | details | | | | |
| Company name of supplier | : GOJO Industries, Inc. | | | | |
| Address | : One GOJO Plaza, Suite 500 Akron, Ohio 44311 | | | | |
| Telephone | : 1 (330) 255-6000 | | | | |
| Emergency telephone number | : 1-800-424-9300 CHEMTREC | | | | |
| Recommended use of the chemical and restrictions on use | | | | | |

: Disinfectants and general biocidal products

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification Flammable liquids | : Category 3 |
|---|--|
| GHS label elements Hazard pictograms | |
| Signal word | : Warning |
| Hazard statements | : H226 Flammable liquid and vapour. |
| Precautionary statements | Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. Response: P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. |



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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

| Chemical name | CAS-No. | Concentration (%) |
|-------------------|---------|-------------------|
| Ethyl Alcohol | 64-17-5 | >= 20 - < 35 |
| Isopropyl Alcohol | 67-63-0 | >= 1 - < 5 |

SECTION 4. FIRST AID MEASURES

| General advice | : In the case of accident or if you feel unwell, seek medical advice immediately. |
|----------------------------|--|
| If inhaled | : If sensitivity occurs, remove to fresh air. If symptoms persist, call a physician. |
| In case of skin contact | : If sensitivity occurs, wash with soap and water. Get medical attention if irritation develops and persists. |
| In case of eye contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice. |
| If swallowed | : Rinse mouth with water. Obtain medical attention. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing |

SECTION 5. FIREFIGHTING MEASURES

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|--------------------------------------|---|--|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Flash back possible over considerable distance. May form explosive mixtures in air. Exposure to decomposition products may be a hazard to |



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| | health. | | |
| Specific extinguishing methods | circumstances and | g measures that are appropriate to local nd the surrounding environment. to cool unopened containers. | |
| Further information | | d contaminated fire extinguishing water must a accordance with local regulations. | |
| Special protective equipment for firefighters | | re, wear self-contained breathing apparatus. otective equipment. | |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Material can create slippery conditions. |
|---|---|---|
| Environmental precautions | : | Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. |
| Methods and materials for containment and cleaning up | : | Non-sparking tools should be used. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations. |

SECTION 7. HANDLING AND STORAGE

| Advice on safe handling | : | Avoid contact with eyes. |
|-----------------------------|---|---|
| Conditions for safe storage | : | No smoking. Take measures to prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with the particular national regulations. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------------|---------|-------------------------------------|---|-----------|
| Ethyl Alcohol | 64-17-5 | TWA | 1,000 ppm 1,900 mg/m3 | NIOSH REL |



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|-------------------|-------------|--------------------------|--------------------------|---------------------------|--|--|
| | | TWA | 1,000 ppm 1,900 mg/m3 | OSHA Z-1 | | |
| | | STEL | 1,000 ppm | ACGIH | | |
| Isopropyl Alcohol | 67-63-0 | TWA | 200 ppm | ACGIH | | |
| | | STEL | 400 ppm | ACGIH | | |
| | | TWA | 400 ppm 980 mg/m3 | NIOSH REL | | |
| | | ST | 500 ppm 1,225 mg/m3 | NIOSH REL | | |
| | | TWA | 400 ppm 980 mg/m3 | OSHA Z-1 | | |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Samplin g time | Permissible concentratio n | Basis |
|--------------------------|---|--|------------------------|--|----------------------------------|--------------|
| Isopropyl Alcohol | 67-63-0 | Acetone | Urine | End of shift at end of workwee k | 40 mg/l | ACGIH BEI |
| Personal protective equ | ipment | | | | | |
| Respiratory protection | | personal resp juired. | iratory prote | ctive equipr | nent normally | |
| Eye protection | : No special measures necessary provided product is used correctly. | | | | | |
| Skin and body protection | : No special measures necessary provided product is used correctly. | | | | | |
| Protective measures | COI | : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. | | | | |
| Hygiene measures | pra | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. | | | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : liquid |
|------------|----------------|
| Colour | : colourless |
| Odour | : alcohol-like |



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|--|--|------------------------------|
| Odour Threshold | : No data available | |
| рН | : 12.6 - 12.9, (24 °C) | |
| Melting point/freezing point | : No data available | |
| Initial boiling point and boiling range | : 77 °C | |
| Flash point | : 30.8 °C Method: Pensky-Martens clos | ed cup |
| Evaporation rate | : No data available | |
| Flammability (solid, gas) | : Not applicable | |
| Flammability (liquids) | : | |
| Upper explosion limit | : 19 %(V) | |
| Lower explosion limit | : 3.3 %(V) | |
| Vapour pressure | : No data available | |
| Relative vapour density | : No data available | |
| Relative density | : No data available | |
| Density | : 0.952 g/cm3 | |
| Solubility(ies) Water solubility | : soluble | |
| Partition coefficient: n- octanol/water | : Not applicable | |
| Auto-ignition temperature | : not determined | |
| Thermal decomposition | : The substance or mixture is n | ot classified self-reactive. |
| Viscosity Viscosity, dynamic | : 2.6 mPa.s | |
| Explosive properties | : Not explosive | |
| Oxidizing properties | : The substance or mixture is n | ot classified as oxidizing. |
| | | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : Not classified as a reactivity hazard. | |
|------------------------------------|---|---|
| Possibility of hazardous reactions | : Vapours may form explosive mixture with air | - |



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|----------------------------------|----------------------------------|---------------------------|
| Conditions to avoid | : Heat, flames and sparks. | |
| Incompatible materials | : Oxidizing agents | |
| Hazardous decomposition products | : No hazardous decomposition pro | ducts are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes Inhalation Skin contact Eye contact | s of exposure |
|--|---|
| Acute toxicity Not classified based on availa | able information. |
| Components: Ethyl Alcohol: Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg |
| Acute inhalation toxicity | : LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour |
| Isopropyl Alcohol: | |
| Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg |
| Acute inhalation toxicity | : LC50 (Rat): 72.6 mg/l Exposure time: 4 h Test atmosphere: vapour |
| Acute dermal toxicity | : LD50 (Rat): > 5,000 mg/kg |

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Components:

Ethyl Alcohol: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Isopropyl Alcohol:

Species: Rabbit Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.



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Components:

Ethyl Alcohol: Species: Rabbit Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405

Isopropyl Alcohol:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

Ethyl Alcohol:

Test Type: Local lymph node assay (LLNA) Exposure routes: Skin contact Species: Mouse Result: negative

Isopropyl Alcohol:

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

| Ethyl Alcohol: Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test Result: negative |
|---|--|
| Genotoxicity in vivo | : Test Type: Rodent dominant lethal test (germ cell) (in vivo) Test species: Mouse Application Route: Ingestion Result: negative |
| Isopropyl Alcohol: | |
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Result: negative |

Carcinogenicity

Not classified based on available information.



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|--|---|---------------------------|
| Components: Isopropyl Alcohol: Species: Rat Application Route: inhalation Exposure time: 104 weeks Method: OECD Test Guideline Result: negative | | |
| IARC | No component of this product presen equal to 0.1% is identified as probabl human carcinogen by IARC. | |
| | No component of this product presen equal to 0.1% is identified as probabl human carcinogen by IARC. | |
| OSHA | No component of this product presen equal to 0.1% is identified as a carcir carcinogen by OSHA. | |
| | No component of this product presen equal to 0.1% is identified as a carcir carcinogen by OSHA. | |
| NTP | No component of this product presen equal to 0.1% is identified as a known by NTP. | |
| | No component of this product presen equal to 0.1% is identified as a known by NTP. | |
| Reproductive toxicity | | |
| Not classified based on availa Components: | ble mormation. | |
| Ethyl Alcohol: Effects on fertility | : Test Type: Two-generation reprod Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative | |
| Isopropyl Alcohol: Effects on fertility | : Test Type: Two-generation reprod Species: Rat Application Route: Ingestion Result: negative | uction toxicity study |
| Effects on foetal development | : Test Type: Embryo-foetal develop Species: Rat Application Route: Ingestion Result: negative | ment |



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STOT - single exposure

Not classified based on available information.

Components:

Isopropyl Alcohol:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Ethyl Alcohol: Species: Rat NOAEL: 2,400 mg/kg Application Route: Ingestion Exposure time: 2 y

Isopropyl Alcohol:

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapour) Exposure time: 104 w Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

| Components: | |
|--|---|
| Ethyl Alcohol: Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h |
| Toxicity to algae | : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d |
| Toxicity to bacteria | : EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h |
| Isopropyl Alcohol: Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h |



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| | | |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water fl Exposure time: 24 h | lea)): > 10,000 mg/l |
| Toxicity to bacteria | : EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h | |
| Persistence and degradabilit | y | |
| Components: | | |
| Ethyl Alcohol: Biodegradability | : Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d | |
| Isopropyl Alcohol: Biodegradability | : Result: rapidly degradable | |
| Bioaccumulative potential | | |
| Components: | | |
| Ethyl Alcohol: Partition coefficient: n- octanol/water | : log Pow: -0.35 | |
| Isopropyl Alcohol: | | |
| Partition coefficient: n- octanol/water | : log Pow: 0.05 | |
| Mobility in soil | | |
| No data available | | |
| Other adverse effects No data available | | |
| Product: | | |
| Regulation | 40 CFR Protection of Environme Stratospheric Ozone - CAA Sec | , |
| Remarks | This product neither contains, no Class I or Class II ODS as defin Section 602 (40 CFR 82, Subpt. | ed by the U.S. Clean Air Ac |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|------------------|--|
|------------------|--|

Waste from residues

: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulation



| Version 1.3 | SDS Number: 400000005188 | Revision Date: 09/28/2017 |
|--|--|---------------------------|
| IAT A-DGR UN/ID No. Proper shipping name Class Packing group Packing instruction (cargo aircraft) Packing instruction | : UN 1987 : Alcohols, n.o.s. (Ethanol, Propan-2-ol) : 3 : III : 366 : 355 | |
| (passenger aircraft) IMDG-Code | | |
| UN number Proper shipping name | : UN 1987 : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) | |
| Class Packing group Labels EmS Code Marine pollutant National Regulations | : 3 : III : 3 : F-E, S-D : no | |
| 49 CFR UN/ID/NA number Proper shipping name | : UN 1987 : Alcohols, n.o.s. (Ethanol, Propan-2-ol) | |
| Class Packing group ERG Code Marine pollutant | : 3 : III : 127 : no | |

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---------------------|-----------|-----------------------|--------------------------------|
| Potassium Hydroxide | 1310-58-3 | 1000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

| SARA 311/312 Hazards | : Fire Hazard |
|----------------------|---|
| SARA 302 | : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA 313 | : The following components are subject to reporting levels established by SARA Title III, Section 313: |



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|---|---|---|------------------------------|---|
| | | Isopropyl Alcohol | 67-63-0 | 1.42 % |
| Clean Air A | ct | | | |
| Air Act Section This product Accidental R | ion 12 (40 CFR 61). t does not contain an Release Prevention (4 | y hazardous air pollutants (H y chemicals listed under the 10 CFR 68.130, Subpart F). | U.S. Clean Air Act | t Section 112(r |
| | | ed under the U.S. Clean Air | Act Section 111 S | OCMI |
| | e or Final VOC's (40 (Ethyl Alcohol | 64-17-5 | 29.4 % | |
| | sopropyl Alcohol | 67-63-0 | 1.42 % | |
| This product 450. | t does not contain an | y VOC exemptions listed und | der the U.S. Clean | Air Act Sectio |
| Clean Wate | r Act | | | |
| This product 307 | t does not contain an | y toxic pollutants listed unde | r the U.S. Clean W | /ater Act Secti |
| The followin Table 116.4 | | nces are listed under the U.S | 6. CleanWater Act, | , Section 311, |
| | Potassium Hydroxide g Hazardous Chemic | 1310-58-3 cals are listed under the U.S. | 0.35 % CleanWater Act, \$ | Section 311, T |
| | Potassium Hydroxide | 1310-58-3 | 0.35 % | |
| Massachus | etts Right To Know | | | |
| | Ethyl Alcohol | | 64-17-5 | 20 - 35 % |
| | Isopropyl Alcoho | bl | 67-63-0 | 1 - 5 % |
| Massachus | etts Right To Know | | | |
| | Ethyl Alcohol | | 64-17-5 | 20 - 30 % |
| | Isopropyl Alcoho | bl | 67-63-0 | 1 - 5 % |
| Pennsylvar | nia Right To Know | | | |
| | Water (Aqua) | | 7732-18-5 | 70 - 90 % |
| | Ethyl Alcohol | | 64-17-5 | 20 - 35 % |
| | Isopropyl Alcoho | bl | 67-63-0 | 1 - 5 % |
| | Potassium Hydr | oxide | 1310-58-3 | 0.1 - 1 % |
| Pennsylvar | nia Right To Know | | | |
| | Water (Aqua) | | 7732-18-5 | 70 - 90 % |
| | Ethyl Alcohol | | 64-17-5 | 20 - 30 % |
| | Isopropyl Alcoho | bl | 67-63-0 | 1 - 5 % |
| | Potassium Hydr | oxide | 1310-58-3 | 0.1 - 1 % |
| | | | | |
| New Jersey | Right To Know | | | |
| New Jersey | Right To Know Water (Aqua) | | 7732-18-5 | 70 - 90 % |
| New Jersey | - | | 7732-18-5 64-17-5 | |
| New Jersey | Water (Aqua) | bl | | 20 - 35 % |
| - | Water (Aqua) Ethyl Alcohol | bl | 64-17-5 | 20 - 35 % |
| - | Water (Aqua) Ethyl Alcohol Isopropyl Alcoho | bl | 64-17-5 | 20 - 35 % 1 - 5 % |
| - | Water (Aqua) Ethyl Alcohol Isopropyl Alcoho | bl | 64-17-5 67-63-0 | 70 - 90 % 20 - 35 % 1 - 5 % 70 - 90 % 20 - 30 % |

California Prop 65

This product does not contain any chemicals known to State

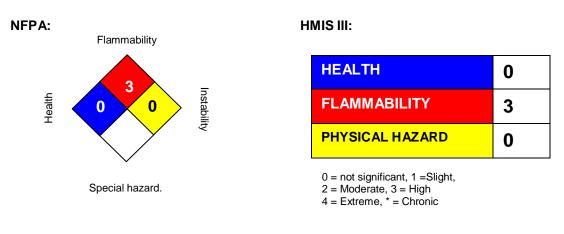


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| | of California to cause cancer, b reproductive harm. | irth defects, or any other |
| The components of this pro- | duct are reported in the following | inventories: |
| CH INV | : On the inventory, or in compliar | nce with the inventory |
| TSCA | : On TSCA Inventory | |
| DSL | : All components of this product a | are on the Canadian DSL. |
| AICS | : On the inventory, or in compliar | nce with the inventory |
| NZIoC | : On the inventory, or in compliar | nce with the inventory |
| ENCS | : On the inventory, or in compliar | nce with the inventory |
| ISHL | : On the inventory, or in compliar | nce with the inventory |
| KECI | : On the inventory, or in compliar | nce with the inventory |
| PICCS | : On the inventory, or in compliar | nce with the inventory |
| IECSC | : On the inventory, or in compliar | nce with the inventory |

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION



Further information

Revision Date : 0

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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



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and is not to be considered a vvarranty 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.



| Version 1.3 | Revision Date: 02/10/2015 | SDS Number: Date of last issu 432-00004 Date of first issu | | |
|----------------|------------------------------|--|---|--|
| SECTION | 1. IDENTIFICATION | | | |
| Product name | | PURELL® Advanced Instant Hand | Sanitizer Fragrance Free | |
| Manu | facturer or supplier's | ills | | |
| Comp | any name of supplier | GOJO Industries, Inc. | | |
| Address | | One GOJO Plaza, Suite 500 Akron OH 44311 | | |
| Telep | hone | 1 (330) 255-6000 | | |
| Emerg | gency telephone | 1-800-424-9300 CHEMTREC | | |
| Reco | mmended use of the c | nical and restrictions on use | | |
| Recor | mmended use | Hand Sanitizer | | |
| Restri | ctions on use | This is a personal care or cosmetic consumers and other users under foreseeable use. Cosmetics and ca specifically defined by regulations exempt from the requirement of an While this material is not considere contains valuable information critic proper use of the product for indus as well as unusual and unintended spills. This SDS should be retained employees and other users of this intended-use guidance, please refe provided on the package or instruct | normal and reasonably onsumer products, around the world, are SDS for the consumer. Ad hazardous, this SDS al to the safe handling and trial workplace conditions l exposures such as large d and available for product. For specific er to the information | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification Flammable liquids | : Category 3 |
|---|------------------------------------|
| Eye irritation | : Category 2A |
| GHS Label element Hazard pictograms | |
| Signal Word | : Warning |
| Hazard Statements | : H226 Flammable liquid and vapor. |



| Version 1.3 | Revision Date: 02/10/2015 | MSDS Number: 36432-00004 | Date of last issue: 12/19/2014 Date of first issue: 12/11/2014 |
|----------------|------------------------------|---|---|
| | | H319 Causes se | rious eye irritation. |
| Preca | utionary Statements | No smoking. P233 Keep conta P241 Use explose equipment. P242 Use only n P243 Take preca P264 Wash skin P280 Wear prote Response: P303 + P361 + F all contaminated P305 + P351 + F for several minut to do. Continue r P337 + P313 If e attention. Storage: P403 + P235 Sto Disposal: | y from heat/sparks/open flames/hot surfaces ainer tightly closed. sion-proof electrical/ ventilating/ lighting/ on-sparking tools. autionary measures against static discharge. thoroughly after handling. ective gloves/ eye protection/ face protection. P353 IF ON SKIN (or hair): Take off immediately clothing. Rinse skin with water/shower. P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and easy rinsing. eye irritation persists: Get medical advice/ ore in a well-ventilated place. Keep cool. |

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

| Chemical Name | CAS-No. | Concentration (%) |
|---------------|---------|-------------------|
| Ethanol | 64-17-5 | >= 50 - < 70 |
| Propan-2-ol | 67-63-0 | >= 1 - < 5 |

SECTION 4. FIRST AID MEASURES

| General advice | In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|-------------------------|--|
| If inhaled | : If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact | : Wash with water and soap as a precaution. Get medical attention if symptoms occur. |



| Version 1.3 | Revision Date: 02/10/2015 | MSDS Number: 36432-00004 | Date of last issue: 12/19/2014 Date of first issue: 12/11/2014 |
|----------------|--|-----------------------------|---|
| In cas | e of eye contact | for at least 15 i | emove contact lens, if worn. |
| If swallowed | | Get medical at | OO NOT induce vomiting. tention if symptoms occur. horoughly with water. |
| | mportant symptoms fects, both acute and ed | : Causes seriou | s eye irritation. |
| Protec | tion of first-aiders | and use the re | nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists. |
| Notes | to physician | : Treat symptom | natically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2) |
|--|---|---|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | : | Carbon oxides |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, | : | Remove all sources of ignition. |
|-----------------------|---|---------------------------------|
|-----------------------|---|---------------------------------|



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|--|------------------------------|--|---|--|--|
| protective equipment and emergency procedures | | Follow safe ha | Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations. | | |
| Envi | ronmental precautions | Prevent furthe Prevent sprea barriers). Retain and dis | o the environment must be avoided. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or oil spose of contaminated wash water. es should be advised if significant spillages tained. | | |
| Methods and materials for containment and cleaning up | | Soak up with i Suppress (kno jet. For large spills containment to can be pumpe container. Clean up rema absorbent. Local or natior disposal of this employed in th determine whi Sections 13 an | tools should be used. nert absorbent material. ock down) gases/vapors/mists with a water spray s, provide diking or other appropriate b keep material from spreading. If diked material ed, store recovered material in appropriate aining materials from spill with suitable hal regulations may apply to releases and s material, as well as those materials and items he cleanup of releases. You will need to ch regulations are applicable. nd 15 of this SDS provide information regarding r national requirements. | | |

SECTION 7. HANDLING AND STORAGE

| Technical measures | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. | |
|-----------------------------|--|---|
| Local/Total ventilation | Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation. | t |
| Advice on safe handling | Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and sat practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to environment. | · |
| Conditions for safe storage | Keep in properly labeled containers. Keep tightly closed. | |



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| | | Store in accorda | vell-ventilated place. nce with the particular national regulations. heat and sources of ignition. |
| Materi | als to avoid | Strong oxidizing Organic peroxide Flammable solid Pyrophoric liquid Pyrophoric solide Self-heating subs | es s s stances and mixtures mixtures which in contact with water emit |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredients | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------|---------|-------------------------------------|---|-----------|
| Ethanol | 64-17-5 | TWA | 1,000 ppm 1,900 mg/m3 | NIOSH REL |
| | | TWA | 1,000 ppm 1,900 mg/m3 | OSHA Z-1 |
| | | STEL | 1,000 ppm | ACGIH |
| Propan-2-ol | 67-63-0 | TWA | 200 ppm | ACGIH |
| | | STEL | 400 ppm | ACGIH |
| | | TWA | 400 ppm 980 mg/m3 | NIOSH REL |
| | | ST | 500 ppm 1,225 mg/m3 | NIOSH REL |
| | | TWA | 400 ppm 980 mg/m3 | OSHA Z-1 |

Ingredients with workplace control parameters

Biological occupational exposure limits

| Ingredients | CAS-No. | Control parameters | Biological specimen | Sam- pling time | Permissible concentratio n | Basis |
|----------------------|---------|--------------------|---------------------|---|----------------------------------|--------------|
| Propan-2-ol | 67-63-0 | Acetone | Urine | End of shift at end of work- week | 40 mg/l | ACGIH BEI |
| Engineering measures | | nimize workpla | • | | tions. | |

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation.



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|------------------------|-------------------------------|--|--|---|--|--|--|--|--|--|
| Pers | Personal protective equipment | | | | | | | | | |
| Respiratory protection | | : (r ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. | | | | | | | |
| | protection | | | | | | | | | |
| Ma | Material | | Impervious gloves | | | | | | | |
| Ma | aterial | : F | -lame retardant g | loves | | | | | | |
| Re | emarks | t F r | on the concentrati time is not determ For special applicates resistance to chem | protect hands against chemicals depending on specific to place of work. Breakthrough ined for the product. Change gloves often! ations, we recommend clarifying the nicals of the aforementioned protective ove manufacturer. Wash hands before end of workday. | | | | | | |
| Еуе р | protection | | Wear the followinດ Safety goggles | personal protective equipment: | | | | | | |
| Skin | and body protection | r F | resistance data ar potential. Wear the following Flame retardant a Skin contact must | te protective clothing based on chemical and an assessment of the local exposure g personal protective equipment: ntistatic protective clothing. be avoided by using impervious protective prons, boots, etc). | | | | | | |
| Hygie | ene measures | ا ۱ | ocated close to th When using do no | ushing systems and safety showers are e working place. t eat, drink or smoke. ed clothing before re-use. | | | | | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : liquid |
|------------|----------------|
| Color | : clear |
| Odor | : alcohol-like |



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|-------------|---------------------|------------------------------------|---|------------------------------|---|-----------------------|
| | Odor Th | nreshold | : | No data available | | |
| | рН | | : | 6.5 - 8.5 | | |
| | Melting | point/freezing point | : | No data available | | |
| | Initial bo range | oiling point and boiling | : | No data available | | |
| | Flash p | oint | : | 24 °C | | |
| | Evapora | ation rate | : | No data available | | |
| | Flamma | ability (solid, gas) | : | Not applicable | | |
| | Upper e | explosion limit | : | No data available | | |
| | Lower e | explosion limit | : | No data available | | |
| | Vapor p | pressure | : | No data available | | |
| | Relative | e vapor density | : | No data available | | |
| | Density | | : | 0.88 g/cm3 | | |
| | Partitio | er solubility n coefficient: n- | | soluble Not applicable | | |
| | octanol | | | N I I I I I I I I I I | | |
| | - | ition temperature | | No data available | | |
| | | position temperature | : | The substance or | mixture is not class | sified self-reactive. |
| | Viscosit Visco | ty osity, kinematic | : | 6,000 - 17,000 mr | m2/s (20 °C) | |
| | Explosi | ve properties | : | Not explosive | | |
| | Oxidizir | ng properties | : | The substance or | mixture is not class | sified as oxidizing. |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : Not classified as a reactivity hazard. | |
|---|--|------|
| Chemical stability | : Stable under normal conditions. | |
| Possibility of hazardous reac- tions | : Flammable liquid and vapor. Vapors may form explosive mixture with Can react with strong oxidizing agents. | air. |

Result: No skin irritation



PURELL® Advanced Instant Hand Sanitizer Fragrance Free

| ersion .3 | Revision Date: 02/10/2015 | MSDS Number: 36432-00004 | Date of last issue: 12/19/2014 Date of first issue: 12/11/2014 |
|--------------------------------|---|--|---|
| Cond | itions to avoid | : Heat, flames a | and sparks. |
| Incom | npatible materials | : Oxidizing age | nts |
| Hazaı produ | rdous decomposition | : No hazardous | decomposition products are known. |
| ECTION | 11. TOXICOLOGICAL | | |
| Inhala Skin o Inges | contact | es of exposure | |
| | e toxicity lassified based on ava | ilable information. | |
| Prod | uct: | | |
| Acute | oral toxicity | : Acute toxicity e Method: Calcu | estimate: > 5,000 mg/kg lation method |
| | <u>dients:</u> | | |
| Ethar Acute | oral toxicity | : LD50 (Rat): > 5 | 5,000 mg/kg |
| Acute | inhalation toxicity | : LC50 (Rat): 12 Exposure time Test atmosphe | :4 h |
| - | an-2-ol: • oral toxicity | : LD50 (Rat): > 5 | 5 000 ma/ka |
| | inhalation toxicity | : LC50 (Rat): 72 Exposure time Test atmosphe | .6 mg/l : 4 h |
| Acute | e dermal toxicity | : LD50 (Rat): > 5 | 5,000 mg/kg |
| - | corrosion/irritation lassified based on ava | ilable information. | |
| <u>Prodı</u> Resul | uct: It: No skin irritation | | |
| Ethar Speci Metho | dients: nol: les: Rabbit od: OECD Test Guideli | ne 404 | |



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|---------|----------------|
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Propan-2-ol:

Species: Rabbit Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:

Ethanol: Species: Rabbit Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405

Propan-2-ol:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:

Ethanol:

Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Inaredients:

| Ethanol: Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test Result: negative |
|--|--|
| Genotoxicity in vivo | : Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative |



| rsion | Revision Date: 02/10/2015 | MSDS Nu 36432-00 | | Date of last issue: 12/19/2014 Date of first issue: 12/11/2014 | | | |
|-------------------------------------|---|--|--|--|--|--|--|
| Propa | n-2-ol: | | | | | | |
| | oxicity in vitro | | ype: Bacte negative | rial reverse mutation assay (AMES) | | | |
| Genotoxicity in vivo | | cytoge Specie Applic | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative | | | | |
| Carcir | nogenicity | | | | | | |
| Not cla | assified based on availa | ble informa | ition. | | | | |
| Specie Applica Expos Metho | n-2-ol: es: Rat ation Route: inhalation (ure time: 104 weeks d: OECD Test Guideline : negative | | | | | | |
| IARC | | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. | | | | | |
| OSH <i>A</i> | A . | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. | | | | | |
| NTP | | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP. | | | | | |
| - | ductive toxicity assified based on availa | ble informa | ition. | | | | |
| <u>Ingrec</u> Ethan | | | | | | | |
| | on fertility | Specie Applic Metho | es: Mouse ation Rout | generation reproduction toxicity study e: Ingestion Test Guideline 416 | | | |
| | n-2-ol: s on fertility | Specie Applic | es: Rat | generation reproduction toxicity study e: Ingestion | | | |
| | | | | | | | |



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Result: negative

STOT-single exposure

Not classified based on available information.

Ingredients:

Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

Ethanol: Species: Rat NOAEL: 2,400 mg/kg Application Route: Ingestion Exposure time: 2 y

Propan-2-ol:

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapor) Exposure time: 104 w Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Ethanol: Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l aquatic invertebrates Exposure time: 48 h : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Toxicity to algae Exposure time: 72 h Method: OECD Test Guideline 201 Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d aquatic invertebrates (Chronic toxicity)



| ersion 3 | Revision Date: 02/10/2015 | | DS Number: 432-00004 | Date of last issue: 12/19/2014 Date of first issue: 12/11/2014 |
|---|---|-----|---|---|
| Toxic | ity to bacteria | : | EC50 (Photoba Exposure time: | cterium phosphoreum): 32.1 mg/l 0.25 h |
| | an-2-ol: ity to fish | : | LC50 (Pimepha Exposure time: | ales promelas (fathead minnow)): 10,000 mg/l 96 h |
| | Toxicity to daphnia and other aquatic invertebrates | | EC50 (Daphnia Exposure time: | magna (Water flea)): > 10,000 mg/l 24 h |
| Toxicity to algae | | : | ErC50 (Scenedesmus quadricauda (Green algae)): > 1,80 mg/l Exposure time: 8 d | |
| Toxic | ity to bacteria | : | EC50 (Pseudor Exposure time: | nonas putida): > 1,050 mg/l 16 h |
| Persi | stence and degradabil | ity | | |
| | dients: | | | |
| Ethar Biode | gradability | : | Result: Readily Biodegradation Exposure time: | : 84 % |
| Propan-2-ol: Biodegradability | | : | Result: rapidly | degradable |
| Bioad | cumulative potential | | | |
| | dients: | | | |
| | iol: on coefficient: n- ol/water | : | log Pow: -0.35 | |
| Propan-2-ol: Partition coefficient: n- octanol/water | | : | log Pow: 0.05 | |
| | lity in soil | | | |
| | ita available : adverse effects | | | |
| | ta available | | | |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|------------------------|--|
| Waste from residues | : Dispose of in accordance with local regulations. |
| Contaminated packaging | : Dispose of as unused product. |



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| | | | |

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

| International Regulation | |
|---|--|
| UNRTDG UN number Proper shipping name Class Packing group Labels | UN 1987 ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) 3 III 3 |
| IAT A-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) | UN 1987 Alcohols, n.o.s. (Ethanol, Propan-2-ol) 3 III Flammable Liquids 366 355 |
| IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant Transport in bulk according Not applicable for product as s Domestic regulation | UN 1987 ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) 3 III 3 F-E, S-D no to Annex II of MARPOL 73/78 and the IBC Code supplied. |

| 49 CFR UN/ID/NA number Proper shipping name | : UN 1987 : ALCOHOLS, N.O.S. |
|--|---------------------------------|
| Class | : 3 |
| Packing group | : III |
| Labels | : FLAMMABLE LIQUID |
| ERG Code | : 127 |



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| Marin | e pollutant | : no | |

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

| SARA 311/312 | Hazards | : | Fire Hazard Acute Health Hazard | | |
|----------------------------|-------------|---|---|-----------|-----------|
| SARA 302 | | : | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. | | |
| SARA 313 | | : | The following components are subject to reporting levels established by SARA Title III, Section 313: | | |
| | | | Propan-2-ol | 67-63-0 | 3.4086 % |
| US State Regulations | | | | | |
| Pennsylvania Right To Know | | | | | |
| - | Ethanol | | | 64-17-5 | 50 - 70 % |
| | Water | | | 7732-18-5 | 30 - 50 % |
| | Propan-2-ol | | | 67-63-0 | 1 - 5 % |
| New Jersey Ri | ght To Know | | | | |
| - | Ethanol | | | 64-17-5 | 50 - 70 % |
| | Water | | | 7732-18-5 | 30 - 50 % |
| | Propan-2-ol | | | 67-63-0 | 1 - 5 % |
| California Proj | o 65 | | This product does not conta State of California to cause reproductive defects. | | |

The ingredients of this product are reported in the following inventories:AICS: All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)



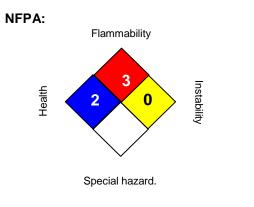
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SECTION 16. OTHER INFORMATION

Further information



HMIS III:

| HEALTH | 2 |
|-----------------|---|
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Full text of other abbreviations

| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
|--|--|
| ACGIH BEI | : ACGIH - Biological Exposure Indices (BEI) |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits |
| OSHA Z-1 | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants |
| ACGIH / TWA | : 8-hour, time-weighted average |
| ACGIH / STEL | : Short-term exposure limit |
| NIOSH REL / TWA | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| OSHA Z-1 / TWA | : 8-hour time weighted average |
| Sources of key data used to compile the Material Safety Data Sheet | : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |
| Revision Date | : 02/10/2015 |

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8



Date: 2/13/2015 (Preparation or Last Revision)

Complies with 91/155/EEC, 1907/2006 (REACH) and amendments, OSHA's Hazard Communication Standard, 29 CFR 1910.1200; and the requirements of the U.S. Department of Labor Occupational Safety & Health Administration.

Regulatory Status:

This preparation is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30.

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION 1: PRODUCT IDENTIFICATION

| PRODUCT NAME: DESCRIPTION: | Absorb! Super Absorbent Solidifier Dry, white, granular, odorless polymer | SEI | RIES NAME: N/A |
|-------------------------------|---|--|---|
| | A500, A1200, A1500, A2000, A2500, A3000, A14000, A | 14000WB, A1200M | N, A1500N, A2000N, A3000N |
| PRODUCT USE: | Solidification of liquid medical waste | | |
| MANUFACTURER: | Northfield Medical Manufacturing, LLC 520 West 21 st Street Suite G-2, Unit 162 Norfolk, VA 23517 | Telephone: Fax: Email: Website: | +1 (866) 981-5234 +1 (865) 622-5220 info@northfieldmanufacturing.com www.northfieldmanufacturing.com |

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

Sodium polyacrylate is a white, granular, odorless polymer that yields a gel-like material with the addition of water. It is insoluble in water and causes extremely slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is a potential respiratory tract irritant. An eight-hour exposure limit of 0.05 mg/m³ is recommended.

Potential Health Effects: Eyes

Dust may cause burning, drying, itching, and other discomfort, resulting in reddening of the eyes.

Potential Health Effects: Skin

Exposure to the dust, such as in manufacturing, may aggravate existing skin conditions due to drying effect.

Potential Health Effects: Ingestion

Although not a likely route of entry, tests have shown that polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

Potential Health Effects: Inhalation

Exposure to respirable dust may cause respiratory tract and lung irritation and may aggravate existing respiratory conditions.

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard

| SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS | | | |
|---|-----------------------------------|---------|--|
| CAS # | Component | Percent | |
| 9003-04-7 | Acrylic Acid Polymer, Sodium Salt | > 85 | |

Component Information / Information on Non-Hazardous Components

The components of this product are not regulated as hazardous under 29 CFR and 49 CFR. However, the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust is recognized. See Sections 8, 11, 14, and 15 for further regulatory information.

SECTION 4: FIRST AID MEASURES

Primary routes of entry: Eye and skin contact; ingestion; inhalation & skin absorption. Medical condition aggravated by exposure: Eyes/skin hypersensitivity

- **EYES:** Immediately flush with plenty of water. Remove particles remaining under the eyelids. Get medical attention if irritation persists.
- **SKIN:** Remove polyacrylate absorbent dust from skin using soap and water.
- **INGESTION:** Non-toxic by ingestion. However, if adverse symptoms appear, seek medical attention.
- INHALATION: If inhaled, move to source of fresh air. Seek medical attention if symptoms persist.

Auto-Ignition Temperature

рΗ



| SECTION 5: FIRE-FIGHTIN | | | | |
|---|---------------------------------------|--|--|--|
| | | | | |
| GENERAL INFORMATION: | | ire hazards associated with the finished product. As in any fire, wear a self-contained tus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. | | |
| FLASH POINT: | NA | | | |
| AUTOIGNITION TEMPERAT | TURE: NA | | | |
| HAZARD CLASSIFICATIO | N: None | | | |
| HEALTH: 1 FLAM | MABILITY: 0 | REACTIVITY: 0 SPECIAL | | |
| EXTINGUISHING MEDIA: | | Dry chemical foam, carbon dioxide, and water fog. Extremely slippery conditions are created if spilled product comes into contact with water. | | |
| SPECIAL FIRE FIGHTING F | ROCEDURES: | Firefighters should wear full protective clothing including self-contained breathing apparatus. | | |
| UNUSUAL FIRE AND EXPL | OSION HAZARDS: | None. | | |
| HAZARDOUS DECOMPOSI | TION PRODUCTS: | Temperatures above 200°C. Thermal decomposition can give toxic products, organic derivatives, and carbon monoxide. | | |
| SECTION 6: ACCIDENTAL | RELEASE MEASUR | ES | | |
| Personal Precautions | Avoid contact with sk | in and eyes. Prohibit inhalation of dust. | | |
| Spill and Leak Procedures | contact of product wi | aterial when possible and shovel into a waste container. Use caution after th water, as extremely slippery conditions will result. Residuals maybe flushed ain for normal wastewater treatment. This is a non-hazardous waste suitable for | | |
| Environmental Precautions | | ved solid waste landfill. opery when it absorbs water. Do not release into the environment. Do not let duct enter drains. | | |
| SECTION 7: HANDLING & | STORAGE | | | |
| HANDLING & STORAGE: | Handle as an | eye and respiratory tract irritant. Store in a dry, closed container. | | |
| OTHER PRECAUTIONS: | None. | | | |
| SECTION 8: EXPOSURE O | ONTROLS/PERSON | AL PROTECTION | | |
| Exposure Guidelines A: General Product Information This product is not regulated as a hazardous material. However, the manufacturer recognizes the potential for respiratory tract irritation and recommends an eight-hour exposure limit of 0.05 mg/m³. B: Component Exposure Limits No information available. Engineering Controls Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m³ over an eight-hour period. PERSONAL PROTECTIVE EQUIPMENT Personal Protective Equipment: Eyes/Face Wear safety glasses with side shields or goggles when handling product in the manufacturing environment. Personal Protective Equipment: Respiratory Wear respirator with a high efficiency filter is particulate concentration in the work area exceeds 0.05 mg/m³ over an eight hour time period. Personal Protective Equipment: General | | | | |
| | , , , , , , , , , , , , , , , , , , , | l practice good housekeeping. Wash thoroughly after handling. | | |
| SECTION 9: PHYSICAL/CH | | | | |
| Appearance Odor Physical State Specific Gravity (Bulk I Melting Point Solubility in Water | Non Solid Density) 0.62 > 33 | d = – 0.74 g/ml | | |

> 400 °C

6 - 8



SECTION 10: STABILITY AND REACTIVITY

STABILITY:

TY: This material is chemically stable under normal and anticipated storage and handling conditions.

CONDITIONS TO AVOID: Store protected from moisture. Keep away from heat and sources of ignition.

None (rabbit)¹

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Decomposition above 200°C. Thermal decomposition can give toxic byproducts, organic vapors, and carbon monoxide.

Not an irritant (human, rabbit)

Non-sensitizing (Guinea pig)¹

TA1537) and Escherichia coli (WP2uvrA)

Not an irritant (rabbit)

Not an irritant (dog)

LD₅₀ rat > 1600 mg/kg,¹ LD₅₀ mouse > 3200 mg/kg,¹

Dust may cause eye, nasal, or bronchial irritation

Ames test is negative, using Salmonella typhimurium (TA98, TA100, TA1535 and

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

General Product Information:

Corrosiveness Acute oral toxicity: Skin irritation: Eye irritation: Vaginal Mucosal Irritation Ames Mutagenicity Test

Skin Contact sensitization Symptoms of Exposure

¹ = data of contracted outside laboratory

Carcinogenicity:

Component Carcinogenicity No information is available.

Chronic Toxicity

Chronic inhalation exposure to rates for a lifetime (two years) using sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2 mg/m³ and 0.8 mg/m³. Also, at 0.8 mg/m³, tumors were seen in some test animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects detected at 0.05 mg/m³.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

Composted polyacrylate absorbents are non-toxic to aquatic or terrestrial organisms at predicted exposure levels. B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available.

Environmental Fate

Polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (> 90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylic absorbents will not affect the performance of wastewater treatment systems.

SECTION 13: DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information

This product is a non-hazardous waste material suitable for approved sold waste landfills.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of in accordance with Local, State, and Federal Regulations.



SECTION 14: TRANSPORTATION INFORMATION

International Transportation Regulations:

This product is not a hazardous material and is not regulated by the Department of Transportation.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

A: General Product Information

This product is not federally regulated as a hazardous material.

- B: Clean Air Act
 - No information is available.
- C: Component Analysis
- No information available. D: Food and Drug Administration
 - No information available.

Component Analysis – Inventories

TSCA (USA) EINECS (EC) ENCS (Japan) CEPA (Canada) WHMIS (Canada)

SECTION 16: OTHER INFORMATION

Conforms, not listed Conforms Conforms All substances listed under the DSL or not required Not a controlled product under this directive

DISCLAIMER: The information provided in this Safety Data Sheet has been compiled, in good faith, from our experience and data presented in various technical publications. A SDS for a substance is not primarily intended for use by the general consumer, focusing instead on the hazards of working with the material in an occupational setting. It is believed to be accurate and represents the best information currently available. HOWEVER, NORTHFIELD MEDICAL MANUFACTURING MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND ASSUMES NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Northfield Medical Manufacturing be liable for any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Northfield Medical Manufacturing has been advised of the possibility of such damages. We reserve the right to update SDS sheets from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.

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