

1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---------------------------------------|---|---------------------------------------|
| Product Name: | Jasco TSP Substitute | |
| Company Name: | W. M. Barr 2105 Channel Avenue Memphis, TN 38113 | Phone Number: (901)775-0100 |
| Web site address: | www.wmbarr.com | |
| Emergency Contact Information: | 3E 24 Hour Emergency Contact W.M. Barr Customer Service | (800)451-8346 (800)398-3892 |
| Intended Use: | Cleaning and Surface Preparation | |
| Synonyms: | QJTS00408, GJTS00410 | |
| Additional Information | This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product. | |

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A-1C
Serious Eye Damage/Eye Irritation, Category 1
Specific Target Organ Toxicity (single exposure), Category 3



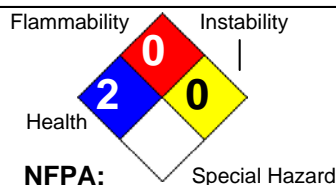
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|--|--|
| GHS Signal Word: | Danger |
| GHS Hazard Phrases: | H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H335: May cause respiratory irritation. |
| GHS Precaution Phrases: | P260: Do not breathe gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. |
| GHS Response Phrases: | P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician. P321: Specific treatment see label. P363: Wash contaminated clothing before reuse. |
| GHS Storage and Disposal Phrases: | P403+233: Store container tightly closed in well-ventilated place. P405: Store locked up. P501: Dispose of contents/container to local, state and federal regulations. |

SAFETY DATA SHEET

Jasco TSP Substitute

Hazard Rating System:

| | | |
|---------------------|---|---|
| HEALTH | - | 2 |
| FLAMMABILITY | 0 | 0 |
| PHYSICAL | 0 | 0 |
| PPE | X | X |



HMIS:

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

INHALATION ACUTE EXPOSURE EFFECTS:

May cause dizziness; headache; irritation of the respiratory system; nausea and vomiting.

SKIN CONTACT ACUTE EXPOSURE EFFECTS:

May cause irritation, itching, redness; swelling; inflammation; discomfort or pain; possible burns. May cause more severe effects on covered skin.

EYE CONTACT ACUTE EXPOSURE EFFECTS:

This material is an eye irritant. May cause irritation; redness and swelling of the conjunctiva; excess blinking and tear production; possible burns, eye damage, blindness.

INGESTION ACUTE EXPOSURE EFFECTS:

Moderately toxic if ingested. Small amounts swallowed incidentally are not likely to cause injury, however, larger amounts may cause injury.

CHRONIC EXPOSURE EFFECTS:

Effects on animals have been reported to include the blood (hemolysis) and secondary effects on the kidney and liver. May cause skin and eye damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # | Hazardous Components (Chemical Name) | Concentration | RTECS # |
|------------|---|---------------|-----------|
| 112-34-5 | Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}} | <10.0 % | KJ9100000 |
| 6834-92-0 | Silicic acid (H ₂ SiO ₃), Disodium salt {Sodium metasilicate (pentahydrate)} | < 5.0 % | VV9275000 |
| 1300-72-7 | Sodium xylenesulfonate | < 5.0 % | ZE5100000 |
| 68439-46-3 | Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated) | < 5.0 % | AZ8100000 |

Additional Chemical Information

Specific percentage of composition is being withheld as a trade secret.

4. FIRST AID MEASURES

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| Emergency and First Aid Procedures: | <p>Skin: Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water and mild soap, if available. Seek medical attention if irritation develops or persists.</p> <p>Eyes: Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes. Seek medical attention.</p> <p>Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.</p> <p>Ingestion: If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.</p> |
| Signs and Symptoms Of Exposure: | See Potential Health Effects. |

5. FIRE FIGHTING MEASURES

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| Flash Pt: | No data. |
| Explosive Limits: | LEL: No data. UEL: No data. |
| Autoignition Pt: | No data. |
| Suitable Extinguishing Media: | Carbon dioxide, dry powder, or foam. |
| Unsuitable Extinguishing Media: | None known. |
| Fire Fighting Instructions: | Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. |
| Flammable Properties and Hazards: | Flashpoint: No flash to boiling. Will not burn. |

6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| Steps To Be Taken In Case Material Is Released Or Spilled: | Isolate the immediate area. Prevent unauthorized entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to compatible containers. For large spills, dike ahead of the spill. |
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7. HANDLING AND STORAGE

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| Precautions To Be Taken in Handling: | Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container. |
| Precautions To Be Taken in Storing: | Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|------------|--|----------|-----------|--------------|
| 112-34-5 | Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)} | No data. | No data. | No data. |
| 6834-92-0 | Silicic acid (H ₂ SiO ₃), Disodium salt {Sodium metasilicate (pentahydrate)} | No data. | No data. | No data. |
| 1300-72-7 | Sodium xylenesulfonate | No data. | No data. | No data. |
| 68439-46-3 | Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated) | No data. | No data. | No data. |

Respiratory Equipment (Specify Type): A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

If the work area is not properly ventilated to keep airborne levels below their exposure limits, you must use a properly fitted and maintained NIOSH approved respirator for organic vapors. A dust mask does not provide protection against vapors.

Eye Protection: Safety glasses, chemical goggles, or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

Protective Gloves: Nitrile, neoprene, natural rubber

Other Protective Clothing: Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.

Work/Hygienic/Maintenance Practices: Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Discard any clothing or other protective equipment that cannot be decontaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Appearance: Blue, Free and Clear
Melting Point: No data.
Boiling Point: > 200.00 F
Autoignition Pt: No data.
Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Specific Gravity (Water = 1): 1.0413 - 1.0713
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): > air
Evaporation Rate: < 1 (BuAC=1)
Solubility in Water: Complete
Viscosity: 5 CPS
pH: 12.7 - 13.4
Percent Volatile: 93.0 % by weight.
VOC / Volume: 0.0000 % WT

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: No data available.
Incompatibility - Materials To Avoid: Strong oxidizers and acids.
Hazardous Decomposition Or Byproducts: Carbon dioxide and carbon monoxide
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: This product has not been tested as a whole. Refer to section 2 for acute and chronic effects.

Chronic Toxicological Effects:

CAS# 112-34-5:
 Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.
 Result:
 Behavioral: Anticonvulsant.
 - American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

CAS# 6834-92-0:
 Standard Draize Test, Skin, Species: Guinea pig, 250.0 MG, 24 H, Moderate.
 Result:
 Effects on Fertility: Other measures of fertility.
 - Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 31,481, 1975

CAS# 68439-46-3:
 Acute toxicity, LD50, Oral, Rat, 1378. MG/KG.
 Result:
 Behavioral: Somnolence (general depressed activity).
 Behavioral: Ataxia.
 Gastrointestinal:Hypermotility, diarrhea.
 - Journal of the American College of Toxicology., Mary Ann Liebert, Inc., New York, NY, Vol/p/yr: 10(4),427, 1991

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|------------|---|------|------|-------|------|
| 112-34-5 | Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)} | n.a. | n.a. | n.a. | n.a. |
| 6834-92-0 | Silicic acid (H ₂ SiO ₃), Disodium salt {Sodium metasilicate (pentahydrate)} | n.a. | n.a. | n.a. | n.a. |
| 1300-72-7 | Sodium xylenesulfonate | n.a. | n.a. | n.a. | n.a. |
| 68439-46-3 | Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated) | n.a. | n.a. | n.a. | n.a. |

12. ECOLOGICAL INFORMATION

General Ecological Information: This product has not been tested as a whole.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state, and federal laws.

SAFETY DATA SHEET

Jasco TSP Substitute

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Printed: 04/22/2015

Revision: 04/21/2015

Supersedes Revision: 06/18/2014

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Compound Cleaning Liquid

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|------------|---|--------------|-----------|---------------|
| 112-34-5 | Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)} | No | No | Yes-Cat. N230 |
| 6834-92-0 | Silicic acid (H ₂ SiO ₃), Disodium salt {Sodium metasilicate (pentahydrate)} | No | No | No |
| 1300-72-7 | Sodium xylenesulfonate | No | No | No |
| 68439-46-3 | Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated) | No | No | No |

This material meets the EPA Yes No Acute (immediate) Health Hazard'Hazard Categories' defined Yes No Chronic (delayed) Health Hazardfor SARA Title III Sections Yes No Fire Hazard311/312 as indicated: Yes No Sudden Release of Pressure Hazard Yes No Reactive Hazard

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|------------|---|--|
| 112-34-5 | Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)} | CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No |
| 6834-92-0 | Silicic acid (H ₂ SiO ₃), Disodium salt {Sodium metasilicate (pentahydrate)} | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 1300-72-7 | Sodium xylenesulfonate | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 68439-46-3 | Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated) | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |

16. OTHER INFORMATION

Revision Date: 04/21/2015

Preparer Name: W.M. Barr EHS Dept (901)775-0100

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.