

SAFETY DATA SHEET

DRAFT VERSION

1. Identification

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|---|---|--|
| Product identifier | Presaturated wipes containing 70% Isopropyl Alcohol, 30% Methyl Ethyl Ketone (IATA) | |
| Other means of identification | | |
| SDS number | FLIQ3125 | |
| Product code | SW420070 | |
| Recommended use | Presaturated cleaning wipes. | |
| Recommended restrictions | Industrial use only. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Company Name | Contec, Inc. | |
| Address | 525 Locust Grove Spartanburg, SC 29303 USA | |
| Telephone | 1-864-503-8333 | |
| Email | SDS@contecinc.com | |
| Emergency phone number | Call CHEMTREC day or night USA/Canada: 1.800.424.9300 Mexico: 1.800.681.9531 Outside USA/Canada: +1.703.527.3887 | |

2. Hazard(s) identification

| | | |
|-----------------------------|---|-----------------------------|
| Physical hazards | Flammable liquids | Category 2 |
| Health hazards | Serious eye damage/eye irritation | Category 2A |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



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| Signal word | Danger |
| Hazard statement | Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. |
| Precautionary statement | |
| Prevention | Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/face protection. |
| Response | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | Although the product as a whole is in solid format, the product does not meet the OSHA HCS definition of a flammable solid as per Appendix B to 1910.1200 - Physical Hazard Criteria, section B.7.1 and B. 7.2 or Canada's Hazardous Products Regulations Subpart 7. |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|---------------------|------------|----|
| Propan-2-ol | 67-63-0 | 70 |
| Methyl ethyl ketone | 78-93-3 | 30 |

Composition comments All concentrations are in percent by weight.

4. First-aid measures

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| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Not relevant, due to the form of the product. In case of ingestion: Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| General information | Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | May burn with invisible flame. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Carbon oxides. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | Solid containing flammable liquid. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Avoid release to the environment. This product will sediment in water systems. The liquid solvent solution is miscible in water. Spills are very unlikely, because the wiper fabric has absorbed the liquid solvent solution. In the event of a spill, contain with an inert absorbent. Collect the wipes with a non sparking tool and absorb or wipe any residual liquids. Put material in suitable container. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |

7. Handling and storage

Precautions for safe handling

WARNING! Used wipes may catch fire if improperly discarded or stored near ignition sources. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Avoid breathing mist/vapors. Avoid contact with skin, eyes and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep containers closed when not in use. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|-----------------------------------|------|-----------------------|
| Methyl ethyl ketone (CAS 78-93-3) | PEL | 590 mg/m ³ |
| | | 200 ppm |
| Propan-2-ol (CAS 67-63-0) | PEL | 980 mg/m ³ |
| | | 400 ppm |

US. ACGIH Threshold Limit Values (TLV)

| Components | Type | Value |
|-----------------------------------|------|---------|
| Methyl ethyl ketone (CAS 78-93-3) | STEL | 300 ppm |
| | TWA | 200 ppm |
| Propan-2-ol (CAS 67-63-0) | STEL | 400 ppm |
| | TWA | 200 ppm |

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

| Components | Type | Value |
|-----------------------------------|------|----------|
| Methyl ethyl ketone (CAS 78-93-3) | IDLH | 1.4 % |
| | | 3000 ppm |
| Propan-2-ol (CAS 67-63-0) | IDLH | 2 % |
| | | 2000 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|-----------------------------------|------|------------------------|
| Methyl ethyl ketone (CAS 78-93-3) | STEL | 885 mg/m ³ |
| | | 300 ppm |
| | | 590 mg/m ³ |
| Propan-2-ol (CAS 67-63-0) | STEL | 200 ppm |
| | | 1225 mg/m ³ |
| | TWA | 500 ppm |
| | | 980 mg/m ³ |
| | | 400 ppm |

Biological limit values

ACGIH Biological Exposure Indices (BEI)

| Components | Value | Determinant | Specimen | Sampling Time |
|-----------------------------------|---------|-------------|----------|---------------|
| Methyl ethyl ketone (CAS 78-93-3) | 2 mg/l | MEK | Urine | * |
| Propan-2-ol (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

Follow standard monitoring procedures.

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| Appropriate engineering controls | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | If splashing is possible, wear safety glasses with side shields (or goggles). |
| Skin protection | |
| Hand protection | Wear appropriate chemical resistant gloves. Take note of the information given by the manufacturer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Recommended materials: Polyethylene. Neoprene. Chlorinated polyethylene (or Chlorosulfonated polyethylene). Natural rubber. Polyvinyl chloride (PVC). Nitrile rubber/Nitrile latex - NBR. Ethyl vinyl alcohol laminate ("EVAL"). Unsuitable materials: Polyvinyl alcohol (PVA). |
| Skin protection | |
| Other | Wear suitable protective clothing. |
| Respiratory protection | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Check with respiratory protective equipment suppliers. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

9. Physical and chemical properties

Appearance

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| Physical state | Solid. |
| Form | Wipes saturated with liquid. |
| Color | Clear. Colorless. |
| Odor | Alcohol-like. |
| Odor threshold | Property has not been measured. |
| pH | Property has not been measured. (liquid) |
| Melting point/freezing point | -128.2 °F (-89 °C) (liquid) |
| Initial boiling point and boiling range | 179.6 °F (82 °C) (liquid) |
| Flash point | 44.6 °F (7 °C) (liquid) |
| Evaporation rate | 1.6 (Water = 1) (liquid) |
| Flammability (solid, gas) | Wipes will burn if involved in a fire. |
| Upper/lower flammability or explosive limits | |
| Explosive limit - lower (%) | 1.2 % (liquid) |
| Explosive limit - upper (%) | 10.9 % (liquid) |
| Vapor pressure | 44 mmHg (liquid) |
| Vapor density | 2.2 (Air = 1) (liquid) |
| Relative density | 0.79 (68 °F (20 °C) (liquid)) |
| Solubility(ies) | |
| Solubility (water) | Completely soluble in water. (liquid) |
| Partition coefficient (n-octanol/water) | Not applicable to mixtures. |
| Auto-ignition temperature | Property has not been measured. |
| Decomposition temperature | Property has not been measured. |
| Viscosity | Property has not been measured. (liquid) |
| Other information | |
| Explosive properties | Not explosive. |
| Kinematic viscosity | Property has not been measured. (liquid) |

Oxidizing properties Not oxidizing.
Percent volatile 100 % (IPA)

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials Strong oxidizing agents. Strong acids. Alkalis.
Hazardous decomposition products Thermal decomposition may produce: Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact Prolonged skin contact may cause temporary irritation.
Eye contact Causes serious eye irritation.
Ingestion Not relevant, due to the form of the product. However: May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Methyl ethyl ketone (CAS 78-93-3)

Acute

Dermal

| | | |
|------|--------|----------|
| LD50 | Rabbit | 10 ml/kg |
|------|--------|----------|

Propan-2-ol (CAS 67-63-0)

Acute

Dermal

| | | |
|------|--------|-------------|
| LD50 | Rabbit | 12870 mg/kg |
|------|--------|-------------|

Inhalation

Vapor

| | | |
|------|-----|--------------------|
| LC50 | Rat | 72.6 mg/l, 4 hours |
|------|-----|--------------------|

Oral

| | | |
|------|-----|------------|
| LD50 | Rat | 4710 mg/kg |
|------|-----|------------|

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged inhalation may be harmful. |

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|-----------------------------------|------|-----------------------|--|
| Methyl ethyl ketone (CAS 78-93-3) | | | |
| Aquatic | | | |
| Algae | EC50 | Algae | 2029 mg/l, 96 hours 1972 mg/l, 72 hours 1901 mg/l, 24 hours 1888 mg/l, 48 hours |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Aquatic Invertebrates | 345 mg/l, 24 hours 308 - 5091 mg/l, 48 hours |
| | NOEC | Aquatic Invertebrates | 68 mg/l, 48 hours |
| Fish | LC50 | Fish | 2993 - 3200 mg/l, 96 hours 2656 mg/l, 72 hours 1816 mg/l, 2 hours 1723 mg/l, 48 hours |
| Propan-2-ol (CAS 67-63-0) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | LC50 | Daphnia magna | > 10000 mg/l, 24 hours |
| Fish | LC50 | Pimephales promelas | 9640 mg/l, 96 hours |
| <i>Chronic</i> | | | |
| Crustacea | EC50 | Daphnia magna | > 100 mg/l, 21 days |
| | NOEC | Daphnia magna | 141 mg/l, 16 days 30 mg/l, 21 days |

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Bioconcentration potential is low.

Partition coefficient n-octanol / water (log Kow)

| | |
|-----------------------------------|------|
| Methyl ethyl ketone (CAS 78-93-3) | 0.29 |
| Propan-2-ol (CAS 67-63-0) | 0.05 |

Mobility in soil Isopropyl alcohol is highly mobile in soil.

Other adverse effects The product contains a volatile organic compound which has a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions Used wipes must be disposed in a closed container. Dispose of used wipes by dry waste to landfill. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

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| Hazardous waste code | D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers. |

14. Transport information

DOT

| | |
|-------------------------------------|---|
| UN number | UN3175 |
| UN proper shipping name | Solids containing flammable liquid, n.o.s. (Isopropanol, Methyl ethyl ketone) |
| Transport hazard class(es) | |
| Class | 4.1 |
| Subsidiary risk | - |
| Label(s) | 4.1 |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | 47, IB6, IP2, T3, TP33 |
| Packaging exceptions | 151 |
| Packaging non bulk | 212 |
| Packaging bulk | 240 |

IATA

| | |
|-------------------------------------|--|
| UN number | - |
| UN proper shipping name | IATA: Not permitted for transport. |
| Transport hazard class(es) | |
| Class | - |
| Subsidiary risk | - |
| Packing group | - |
| Environmental hazards | No. |
| Special precautions for user | IATA classification is not relevant as the material is not transported by air. |

IMDG

| | |
|-------------------------------------|---|
| UN number | UN3175 |
| UN proper shipping name | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol, Methyl ethyl ketone) |
| Transport hazard class(es) | |
| Class | 4.1 |
| Subsidiary risk | - |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No. |
| EmS | F-A, S-I |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Methyl ethyl ketone (CAS 78-93-3) Listed.

Propan-2-ol (CAS 67-63-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Propan-2-ol | 67-63-0 | 70 |

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Methyl ethyl ketone (CAS 78-93-3) 6714

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Methyl ethyl ketone (CAS 78-93-3) Low priority

Propan-2-ol (CAS 67-63-0) Low priority

US state regulations**US. Massachusetts RTK - Substance List**

Methyl ethyl ketone (CAS 78-93-3)

Propan-2-ol (CAS 67-63-0)

US. New Jersey Worker and Community Right-to-Know Act

Methyl ethyl ketone (CAS 78-93-3)

Propan-2-ol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Methyl ethyl ketone (CAS 78-93-3)

Propan-2-ol (CAS 67-63-0)

US. Rhode Island RTK

Methyl ethyl ketone (CAS 78-93-3)

Propan-2-ol (CAS 67-63-0)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| | |
|----------------------------|---|
| Issue date | Draft version. |
| Revision date | Draft version. |
| Version # | Draft version. |
| Further information | HMIS Rating: X - Ask Supervisor |
| HMIS® ratings | Health: 2 Flammability: 3 Physical hazard: 0 Personal protection: X |
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