



**روشهای پیشگیری، علایم و اقدامات اولیه در مسمومیت ناشی از مواد ضد عفونی کننده شایع موثر بر
ویروس SARS-CoV-2**

<http://www.inchem.org/documents/icsc/>



فروردین ۱۳۹۹

ستاد مرکزی اطلاع رسانی داروها و سموم- دفتر نظارت و پایش مصرف فرآورده های سلامت
سازمان غذا و دارو

Ethanol (با غلظت 62 تا 95 درصد و 80% hand rubs موثر بر SARS-CoV2)

| STRICT HYGIENE! PREVENT GENERATION OF MISTS! | | | |
|---|---|---|--|
| | SYMPTOMS | PREVENTION | FIRST AID |
| Inhalation | Cough. Headache. Fatigue. Drowsiness. | Use ventilation, local exhaust or breathing protection. | Fresh air, rest. |
| Skin | Dry skin. | Protective clothing. Apron. Protective gloves. | Remove contaminated clothes. Rinse skin with plenty of water or shower. |
| Eyes | Redness. Pain. Burning sensation. | Wear safety goggles. | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention. |
| Ingestion | Burning sensation. Headache. Confusion. Dizziness. Unconsciousness. | Do not eat, drink, or smoke during work. | Rinse mouth. Give one or two glasses of water to drink. Refer immediately for medical attention. |
| STORAGE | | | |
| Fireproof. Separated from: see Chemical Dangers. | | | |
| NOTES | | | |
| Ethanol consumption during pregnancy may adversely affect the unborn child. Chronic ingestion of ethanol may cause liver cirrhosis and cancer. | | | |

(با غلظت 70 تا 100 درصد و 75% hand rubs موثر بر SARS-CoV2) **ISOPROPYL ALCOHOL (2-PROPANOL)**

| | SYMPTOMS | PREVENTION | FIRST AID |
|---|---|--|--|
| Inhalation | Cough. Dizziness. Drowsiness. Headache. Sore throat. See Ingestion. | Use ventilation, local exhaust or breathing protection. | Fresh air, rest. Refer for medical attention. |
| Skin | Dry skin. | Protective gloves. | Remove contaminated clothes. Rinse and then wash skin with water and soap. |
| Eyes | Redness. | Wear safety spectacles or eye protection in combination with breathing protection. | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention. |
| Ingestion | Abdominal pain. Labored breathing. Nausea. Unconsciousness. Vomiting. Further see Inhalation. | Do not eat, drink, or smoke during work. | Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention. |
| STORAGE | | | |
| Fireproof. Separated from strong oxidants. Cool. Well closed. | | | |
| NOTES | | | |
| Use of alcoholic beverages enhances the harmful effect. | | | |

(با غلظت 0.5 تا 2.5 درصد موثر بر SARS-CoV2) GUTARALDEHYDE

| AVOID ALL CONTACT! FIRST AID: USE PERSONAL PROTECTION. | | | |
|---|---|---|---|
| | SYMPTOMS | PREVENTION | FIRST AID |
| Inhalation | Cough. Sore throat. Nosebleeds. Labored breathing. Further see Ingestion. | Use ventilation, local exhaust or breathing protection. | Fresh air, rest. Artificial respiration may be needed. Refer immediately for medical attention. |
| Skin | Redness. Pain. Skin burns. | Protective gloves. Protective clothing. | Wear protective gloves when administering first aid. Remove contaminated clothes. Rinse skin with plenty of water or shower for at least 15 minutes. Refer for medical attention. |
| Eyes | Redness. Pain. Burns. Corneal damage. | Wear safety goggles or eye protection in combination with breathing protection. | Rinse with plenty of water for several minutes (remove contact lenses if easily possible). Refer immediately for medical attention. |
| Ingestion | Abdominal pain. Nausea. Diarrhea. Vomiting. | Do not eat, drink, or smoke during work. | Rinse mouth. Do NOT induce vomiting. Refer immediately for medical attention. |
| STORAGE | | | |
| Store only in original container. Well closed. Separated from food and feedstuffs, incompatible materials and amines. Separated from strong oxidizers and strong bases. Keep in a well-ventilated room. Keep in the dark. | | | |
| PACKAGING | | | |
| Do not transport with food and feedstuffs. | | | |
| NOTES | | | |
| <p>The applying occupational exposure limit value should not be exceeded during any part of the working exposure.</p> <p>The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort.</p> <p>Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance.</p> <p>See ICSC 0352.</p> | | | |

(با غلظت 0.7 تا 1 درصد موثر بر SARS-CoV2) **FORMALDEHYDE**

| AVOID ALL CONTACT! | | | |
|--|---|---|--|
| | SYMPTOMS | PREVENTION | FIRST AID |
| Inhalation | Cough. Sore throat. Burning sensation behind the breastbone. Headache. Shortness of breath. | Use ventilation, local exhaust or breathing protection. | Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer immediately for medical attention. |
| Skin | Redness. | Protective gloves. | Remove contaminated clothes. Rinse skin with plenty of water or shower. Seek medical attention if you feel unwell. |
| Eyes | Watering of the eyes. Redness. Pain. Blurred vision. | Wear safety goggles or eye protection in combination with breathing protection. | Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention. |
| Ingestion | | | |
| STORAGE | | | |
| Fireproof. Cool. Separated from incompatible materials. See Chemical Dangers. | | | |
| NOTES | | | |
| <p>Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.</p> <p>No UN number is presented because formaldehyde is not transported as a gas. It is usually transported as a solution. See ICSC 0695.</p> | | | |

(SARS-CoV2 بر 0.23 تا 7.5 درصد موثر بر)**POVIDONE-IODINE**

| | SYMPTOMS | PREVENTION | FIRST AID |
|---|----------|--------------------|---|
| Inhalation | | | |
| Skin | | Protective gloves. | Rinse and then wash skin with water and soap. |
| Eyes | | | |
| Ingestion | | | |
| STORAGE | | | |
| Dry. Well closed. | | | |
| NOTES | | | |
| The substance is a widely used topical antiseptic and it has been only very rarely associated to any adverse effects during its normal use. | | | |

SODIUM HYPOCHLORITE (SOLUTION, ACTIVE CHLORINE >10%)

(با غلظت 0.2 درصد موثر بر SARS-CoV2)

STRICT HYGIENE! IN ALL CASES CONSULT A DOCTOR!

| | SYMPTOMS | PREVENTION | FIRST AID |
|-------------------|---|--|--|
| Inhalation | Burning sensation. Cough. Laboured breathing. Shortness of breath. Sore throat. Symptoms may be delayed. See Notes. | Use ventilation, local exhaust or breathing protection. | Fresh air, rest. Half-upright position. Artificial respiration may be needed. Administration of oxygen may be needed. Refer immediately for medical attention. |
| Skin | Redness. Skin burns. Pain. Blisters. | Protective gloves. Protective clothing. | First rinse with plenty of water for at least 15 minutes, then remove contaminated clothes and rinse again. Refer immediately for medical attention. |
| Eyes | Redness. Pain. Severe burns. | Wear face shield or eye protection in combination with breathing protection. | Rinse with plenty of water for several minutes (remove contact lenses if easily possible). Refer immediately for medical attention. |
| Ingestion | Burning sensation. Abdominal pain. Vomiting. Shock or collapse. Unconsciousness. | Do not eat, drink, or smoke during work. | Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer immediately for medical attention. |

STORAGE

Separated from combustible substances, reducing agents, acids and food and feedstuffs. See Chemical Dangers. Cool. Keep in the dark. Well closed. Store only in original container.

PACKAGING

Do not transport with food and feedstuffs.

NOTES

Household bleaches usually contain about 5% sodium hypochlorite (about pH11, irritant), and more concentrated bleaches contain 10-15% sodium hypochlorite (about pH13, corrosive).

The symptoms of lung edema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential.

Rinse contaminated clothing with plenty of water because of fire hazard.

Also consult ICSC #0482 (Sodium hypochlorite, active chlorine <10%).

SODIUM HYPOCHLORITE (SOLUTION, ACTIVE CHLORINE <10%)

(با غلظت 0.2 درصد موثر بر SARS-CoV2)

| PREVENT GENERATION OF MISTS! | | | |
|---|---|--|---|
| | SYMPTOMS | PREVENTION | FIRST AID |
| Inhalation | Cough. Sore throat. | Use ventilation. | Fresh air, rest. Refer for medical attention. |
| Skin | Redness. Pain. | Protective gloves. | First rinse with plenty of water for at least 15 minutes, then remove contaminated clothes and rinse again. Refer for medical attention . |
| Eyes | Redness. Pain. | Wear safety spectacles. | Rinse with plenty of water for several minutes (remove contact lenses if easily possible). Refer for medical attention. |
| Ingestion | Burning sensation. Sore throat. Cough. Abdominal pain. Vomiting. Diarrhoea. | Do not eat, drink, or smoke during work. | Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer immediately for medical attention. |
| STORAGE | | | |
| Separated from acids. See Chemical Dangers. Cool. Keep in the dark. Well closed. Store only in original container. | | | |
| PHYSICAL & CHEMICAL INFORMATION | | | |
| Chemical dangers Decomposes on heating and on contact with acids. Decomposes under the influence of light. This produces toxic and corrosive gases including chlorine (see ICSC 0126). The substance is a strong oxidant. It reacts with combustible and reducing materials. The solution in water is a weak base. Attacks many metals. | | | |
| EXPOSURE & HEALTH EFFECTS | | | |
| Routes of exposure The substance can be absorbed into the body by inhalation of its aerosol. Effects of short-term exposure The substance is irritating to the eyes, skin, respiratory tract and digestive tract. See Notes. | | Inhalation risk No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C. Effects of long-term or repeated exposure Repeated or prolonged contact with skin may cause dermatitis. | |
| NOTES | | | |
| Household bleaches usually contain about 5% sodium hypochlorite (about pH11, irritant), and more concentrated bleaches contain 10-15% sodium hypochlorite (about pH13, corrosive). Rinse contaminated clothing with plenty of water because of fire hazard. Also consult ICSC #1119 (Sodium hypochlorite, active chlorine >10%). | | | |

(SARS-CoV2 با غلظت 0.5 درصد موثر بر) **HYDROGEN PEROXIDE(>60% SOLUTION IN WATER)**

| PREVENT GENERATION OF MISTS! AVOID ALL CONTACT! IN ALL CASES CONSULT A DOCTOR! | | | |
|--|--|---|--|
| | SYMPTOMS | PREVENTION | FIRST AID |
| Inhalation | Sore throat. Cough. Dizziness. Headache. Nausea. Shortness of breath. | Use ventilation, local exhaust or breathing protection. | Fresh air, rest. Half-upright position. Refer immediately for medical attention. |
| Skin | MAY BE ABSORBED! Skin discoloration. Swelling. Redness. Pain. Skin burns. | Protective gloves. Protective clothing. | First rinse with plenty of water for at least 15 minutes, then remove contaminated clothes and rinse again. Refer immediately for medical attention. |
| Eyes | Redness. Pain. Blurred vision. Corneal damage. Burns. | Wear safety goggles or face shield. | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention. |
| Ingestion | Aspiration hazard! Sore throat. Abdominal pain. Abdominal distension. Shock or collapse. | Do not eat, drink, or smoke during work. | Rinse mouth. Do NOT induce vomiting. Refer immediately for medical attention. |
| STORAGE | | | |
| Store in an area without drain or sewer access. Separated from food and feedstuffs. See Chemical Dangers. Cool. Keep in the dark. Store in vented containers. Store only if stabilized. | | | |
| PACKAGING | | | |
| Special material. | | | |
| NOTES | | | |
| Rinse contaminated clothing with plenty of water because of fire hazard. Other UN numbers: 2014 (hydrogen peroxide, aqueous solution 20-60%): hazard class 5.1, subsidiary hazard 8, pack group II; 2984 (hydrogen peroxide, aqueous solution 8-20%): hazard class 5.1, pack group III. | | | |