

# EYE PROBLEMS - CHEMICAL BURN

(ISS MED/3A - ALL/FIN)

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## NOTE

Contact Surgeon before giving any medication marked with an asterisk. In an emergency or during Loss of Signal, begin appropriate treatment; then call Surgeon as soon as possible.

- CCPK
- ALSP  
(red)
1. Unstow:
    - Drink Bag container full of water
    - Drink Straw
    - Towels
    - SSE (Eyewash, Tubing Connectors)
    - Wastewater Collection Bag
    - Proparacaine Ophthalmic Solution (Eye Drops) (P2-A6)
    - Saline Solution (500 ml) (ALSP-9)
  2. Prior to SSE configuration, attempt eye irrigation with Drink Bag, Drink Straw.  
Use Towels to absorb excess water.
  3. For definitive eye flush, deploy SSE near SVO-ZV interface.
  4. Remove Drinking Straw interface from SVO-ZV.
  5. Connect supply end of SSE to SVO-ZV and waste end of SSE to a Wastewater Collection Bag.
  6. If needed, may anesthetize affected eye with Proparacaine Ophthalmic Solution; 1-2 drops.
- WARNING**

Do not use more than two drops of Proparacaine Ophthalmic Solution per treatment as corneal damage may occur. Do not rub eyes for 30 minutes following anesthetic administration. Do not repeat dose without contacting Surgeon.
7. Don Goggles with outflow side of Goggles on affected eye (affected eye closest to bag). Refer to Figure 1.

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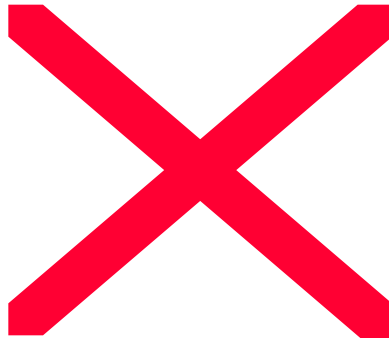


Figure 1.- Space Station Eyewash (SSE).

8. Pump SVO-ZV to pressurize supply source, approximately four strokes.

**NOTE**

Crewmember can press Goggles against face for better seal.

9. Push and hold SVO-ZV red release valve to start flow into Goggles.
10. Flush eyes.  
Keep eyes open.  
Absorb any water leakage with Towels.
11. Continue to pump SVO-ZV as needed to maintain flow.
12. When Wastewater Collection Bag is full, release SVO-ZV valve to terminate flow and if required, replace with an empty Wastewater Collection Bag.
13. Contact Surgeon.

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14. Now proceed with {EYE EXAMINATION} (SODF: ISS MED: EYE) using step 4, FLUOROSCEIN STAIN, for affected eye(s). Do not perform step 5, FOREIGN BODY or step 6, EYE INFECTION sections.

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(blue)

If corneal staining is seen with Fluorescein Stain  
Cyclogyl Ophthalmic Solution (Cyclopentolate) (P2-A8) - Eye drops  
for pupil dilation

Dose: 1 drop in affected eye

Possible side effects  
Transient burning, blurred vision due to pupil dilation, sensitivity to light

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(blue)

Instill Ciloxan Ophthalmic Solution (P2-A11) into affected eyes -  
Antimicrobial solution for topical ophthalmic use

Dose: 1-2 drops in affected eye 4 times/day

Possible side effects  
Local burning or discomfort  
Use may result in overgrowth of nonsusceptible organisms,  
including fungi. Requires close observation.

Patch eye if directed by Surgeon.  
Refer to {EYE PROBLEMS - FOREIGN BODY ABRASION}, step 7  
(SODF: ISS MED: EYE).

### DRUG HELP

1. Motrin (Ibuprofen) is an anti-inflammatory agent and analgesic agent. It may cause mild upset stomach and should be avoided if there is allergy to aspirin.
2. Tylenol is analgesic but not anti-inflammatory and does not cause upset stomach or other serious side effects. Tylenol works as well as Motrin.
3. Vicodin is Tylenol plus a mild narcotic and is the strongest of these pain relievers. It may cause some drowsiness and dizziness. Eye burns and injuries may be very painful; do not hesitate to use this medication if needed.

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Tylenol (Acetaminophen) (P1-A1,2,3) - Aspirin-free pain reliever

Dose: 1-2 tablets every 4 to 6 hours as needed

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Motrin (Ibuprofen) (P1-B5,6) - Intermediate-strength pain reliever, anti-inflammatory

Dose: 1 tablet every 8 hours with food and drink

**NOTE**

Do not take if allergic to aspirin.

Possible side effects

Upset stomach, diarrhea

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(blue)

Vicodin (Hydrocodone Bitartrate, Acetaminophen) (P1-B3) - Narcotic pain reliever

Dose: 1-2 tablets every 4 to 6 hours as needed

**NOTE**

The following drugs should not be used together as they may cause excessive drowsiness: Ambien, Benadryl, Claritin, Compazine, Demerol, Dilantin, Haldol, Morphine, Phenergan, Restoril, Valium, Vicodin, Soma, Grandaxin, Persen, Phenazepam, Phenibut, Radedorm, Relanium, Rudotel, Suprastin, Tavegil, Xanax.

Possible side effects

Dizziness, drowsiness, nausea, vomiting, constipation, urinary retention

After 24 hours, perform {EYE PROBLEMS - CORNEAL ULCER} (SODF: ISS MED: EYE).

Contact Surgeon with results.

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If no corneal staining seen with Fluorescein Stain

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### Treatment

Instill Ciloxan Ophthalmic Solution (Ciprofloxacin) (P2-A11) -  
Antimicrobial solution for topical ophthalmic use

Dose: 1-2 drops in affected eye 4 times/day

### Possible side effects

Local burning or discomfort

Use may result in overgrowth of nonsusceptible organisms,  
including fungi. Requires close observation.

15. Repeat Fluorescein Stain examination in approximately 24 hours.
16. Contact Surgeon with results.