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Spill Decontamination Kit for Aliphatic Isocyanates

Cat. No. 769-2003

Operating Instructions

Skin contamination can be controlled with safe work practices and handling procedures. Surface contamination alone does not represent employee exposure—tools, machinery controls, or telephones handled with contaminated gloves also represent potential exposures when touched by unprotected skin. Implement a weekly detection and decontamination program to maintain a clean and safe working environment.

The primary health concern of isocyanate use is respiratory sensitization of the workforce. Laboratory studies with animals have demonstrated that only dermal contact can induce respiratory sensitizations to both TDI and MDI. Aliphatic isocyanates, such as HDI, are skin sensitizers. Therefore, with low vapor pressure isocyanates, reducing skin contact should be the primary concern.

Notes and Cautions

- Gloves should be worn during testing.
- DECONTamination Solution 769-1052 contains ammonia, which is irritating to the nasal passages and skin. Use this solution only in well-ventilated areas.
- Avoid any skin contact with the DECONTamination Solution.
- Limited shelf-life: Check expiration date on packaging.

SURFACE SWYPE™ INDICATORS

Contamination Detection

1. Lightly spray the area or item (workbench, tool, control knob) with Developing Solution 769-1062.
2. Wait at least 30 seconds, then wipe with Surface SWYPE indicator 769-1023.
3. Allow 3 minutes for the color to develop. A red-orange color is specific for isocyanates.

Cleaning/Decontamination

1. Wet area thoroughly with DECONTamination Solution. Use an abrasive pad if necessary to enhance penetration.
2. Allow the solution to react for at least 5 minutes. Rinse with water.
3. Recheck the area with a Surface SWYPE indicator to verify that decontamination is complete.
4. **To decontaminate tools**, soak them in DECONTamination Solution for at least 5 minutes and rinse with water. Recheck with a Surface SWYPE indicator to verify that decontamination is complete.

SKIN SWYPE™ INDICATORS

Contamination Detection

1. Wipe the skin with the cloth portion of Skin SWYPE indicator 769-1033.
2. Pour ¼ inch of the developing solution into the small cup provided.
3. Put the Skin SWYPE indicator in the cup, cloth end down and color detection strip up. The developing solution will wick up to the color detection strip and a color change will occur if contamination is present.

Cleaning/Decontamination

See *D-TAM Skin Cleanser*.

D-TAM™ SKIN CLEANSER

Unlike other skin cleansers, D-TAM Skin Cleanser 769-5001 contains no cosmetic additives such as aloe, lanolin, emollients, or moisturizers that may enhance chemical absorption. It contains no harsh surfactants such as limonene or alcohol that can strip the natural barrier properties of the skin. D-TAM Skin Cleanser is formulated with high molecular weight ingredients that will not penetrate the skin. Use it for cleaning/decontamination as follows.

Note: *D-TAM Skin Cleanser is most effective in reducing skin absorption when used promptly after chemical exposure occurs.*

1. **DO NOT WET SKIN.** Apply D-TAM Skin Cleanser directly to contaminated skin. Rinse thoroughly with lukewarm water and gently pat dry.
2. Retest with a Skin SWYPE indicator to verify that decontamination is complete.
3. Repeat if necessary.

PERMEA-TEC™ SENSORS

PERMEA-TEC Sensors 769-3003 are breakthrough indicators worn underneath protective gloves. It is recommended that the sensors be placed on the thumb, middle finger, and palm as these represent the areas of most frequent contact and glove abrasion.

Determine User-Safe Time Period for Particular Glove

Note: *For this determination, double gloving is recommended.*

1. Affix PERMEA-TEC sensors to the thumb, middle finger, and palm on the outside of the glove currently being worn. Don the glove to be evaluated over the first glove.
2. After one hour, remove the outside glove and the underlying PERMEA-TEC sensors.
3. Evaluate the sensors for breakthrough. A positive indication of breakthrough results in a color change to red-orange.
4. If no breakthrough is indicated, apply fresh PERMEA-TEC sensors and continue to wear the outside glove for another hour. Follow Step 2 to determine if breakthrough has occurred.
5. Repeat Steps 3 and 4 to determine a user-safe time period for gloves.

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