

Oil Spill Cleanup Garment Options

DuPont Protection Technologies

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Oil Spill – Nature of the Hazard

Activities

- Boom Handling
- Equipment Maintenance
- Care of Wildlife
- Shoreline cleanup

Skin Contact Hazard

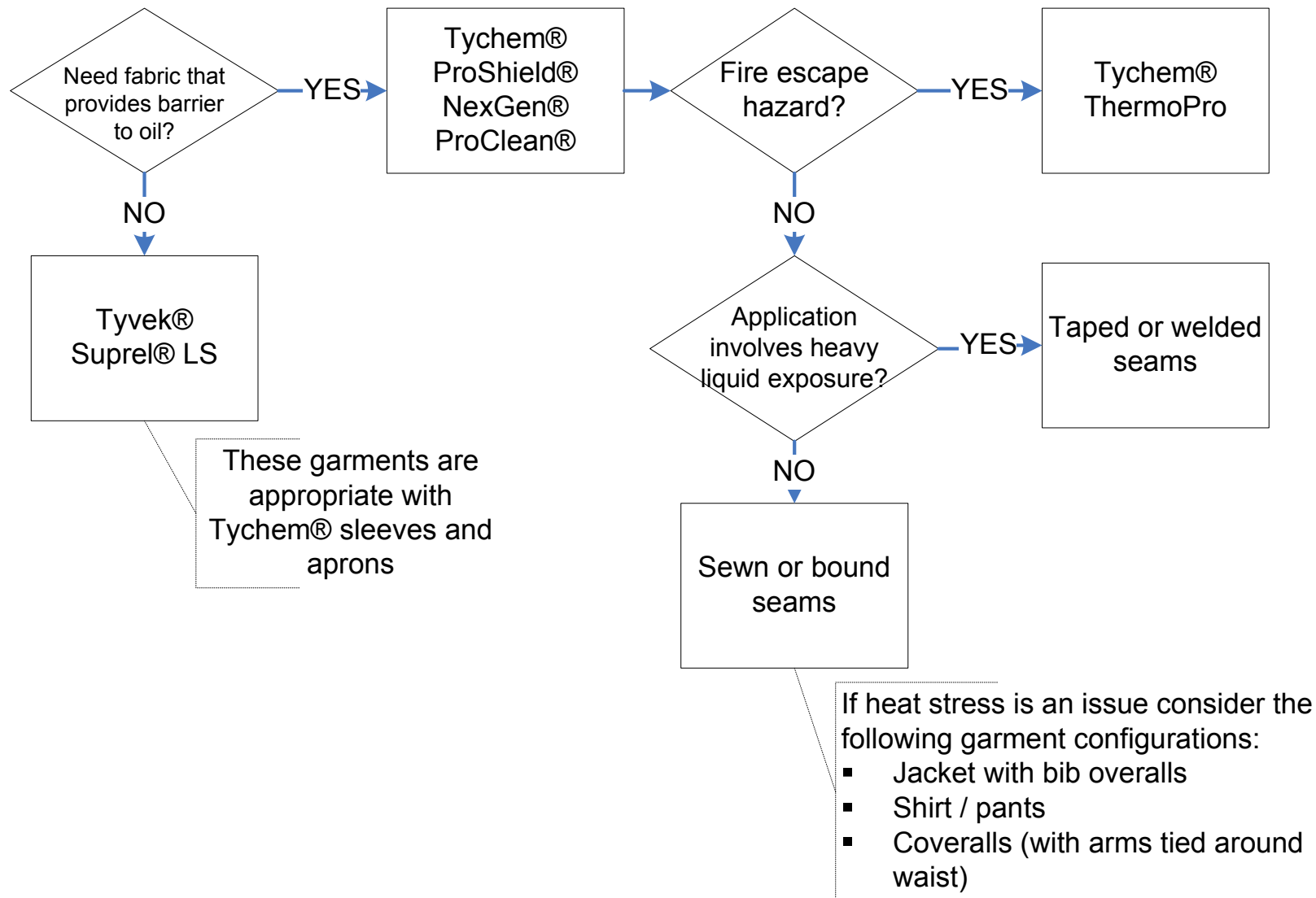
- Level D- no respirators, nuisance contamination
- Choice of garment materials that serve as barrier
 - Wetting and penetration versus permeation
- Garment seams and garment designs depend on activity
- Legs likely to see most exposure
 - Followed by forearms and front of torso

Oil Spill – Nature of the Hazard

Additional Protective Clothing Considerations

- Wet work environment
 - Wet equipment, oil booms
 - Wading
 - Soap & water cleanup of equipment
- Flammability
 - Large masses of oil soaked booms
 - Oil on water and puddles of oil
- Heat, Humidity and Heat Stress –
 - High humidity and high temperatures contributing to heat stress
 - Likely skin irritation complaints from prickly heat

Oil Spill – Garment Decision Tree



Garment Suggestions

If flammability hazard,

- Tychem® ThermoPro

Any Tychem® Jackets/Bib Overalls, Shirt & Pant

- Tychem® SP with welded seams, bib overalls and jacket
- Other Tychem® jackets, lab coats, shirts, bib overalls, pants, long sleeve aprons

Tychem® Coveralls

- Any fabric, hoods optional, taped seams preferred over serged or bound
- If shortage of pants or bib overalls, suggest coveralls with arms tied around the waist as a substitute for pant and for heat stress relief.

ProShield® NexGen & ProClean®

- Seams not sealed

Tyvek® & Suprel®

- (Light liquid splash only) - seams not sealed, material absorb oil
- With Tychem® Aprons & Sleeves.

Encapsulating Suits not Recommended

- Heat stress



Fabric	Combo - Jacket & Bib		Bib Overall	Shirt	Pants	Bib Apron	Long Sleeve Apron (gown)	Sleeves	Lab Coat or Frock	Coveralls
	Jacket	Overall								
Models shown in gray are discontinued and available in limited supply										
Tychem® SP	SP670N SP677N SP678N	SP360N SP362N								
Tychem® QC Yellow unless otherwise indicated				QC303S	QC350S	QC273B	QC275B QC278B	QC500B	QC210S QC210B	QC120B QC120S QC122S QC122S (GY) QC124B QC122B QC122T QC125B QC125S QC125T QC125T (GY) QC127B QC127B (GY) QC127S QC127T QC127T (GY)
Tychem® SL						SL274B	SL275B SL275T SL278B	SL500B	SL210B	SL120B SL120T SL121B SL121T SL122B SL122T SL125B SL123T SL125T SL127B SL127T SL128T SL169B SL169T
Tychem® CPF3	C3670T	C3360T	C3750T				C3275T			C3122T C3125T C3127T C3128T C3168T C3184T C3185T
Tychem® ThermoPro										TP188T TP188T (GY) TP189T TP189T (GY) TP198T TP198T (GY) TP199T TP199T (GY)
Tychem® LV	LV670T	LV360T	LV753T							LV125T LV127T LV128T LV611T
Tychem® BR										BR122T BR124T BR125T BR128T BR611T
Tychem® Responder® CSM										RC128T
Tychem® Responder®										RS127T
Tychem® F										TF145T TF169T
Tychem® TK										TK122T TK127T TK128T
Tyvek®				TY303S	TY250S	TY273B		TY500S	TY210S TY211S TY212S TY216S	TY120S TY121S TY122S TY125S TY127S TY152S TY152S (OR)
ProShield® NexGen						NG273B		NG500S	NG212S NG210S NG211S	NG120S NG122S NG125S NG127S NG125B NG131S
ProClean®							PC701S		PC270S	PC122S PC143S

OSHA Regulations

OSHA Topic Page

- <http://www.osha.gov/oilspills/index.html>

OSHA has provide training guidelines for oil spill cleanup workers

- <http://www.osha.gov/Publications/3172/3172.html>

OSHA has interpreted PPE for oil spill cleanup workers

- http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&p_id=21928
- http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&p_id=20559

The National Institute for Environmental Health Science (NIEHS – a unit of the National Institutes of Health, U.S. Health and Human Services) has summarized many of the hazards and protections needed for workers involved in oil spill response and cleanup.

- http://tools.niehs.nih.gov/wetp/public/hasl_get_blob.cfm?ID=8569

Additional Guidance

- It is the employers responsibility to perform the hazard assessment, select proper PPE in response to hazards identified, inform employees, fit employees with PPE, train employees on proper use, care and maintenance, audit compliance and retrain any employee that does not understand or use PPE properly.
- For guidance on care, use and maintenance of Tychem[®] Chemical Protective Garments, read, understand and follow the information in the Tychem[®] User Manual.
- Tychem[®] garments can be re-used until damaged, altered or contaminated.
- Tychem[®] garments, except for Tychem[®] ThermoPro, are flammable and should not be used in potentially flammable or explosive situations.
- Do not knowingly enter a flammable or explosive environment. If you find yourself in a flammable or explosive environment, immediately retreat. Of the Tychem[®] fabrics, only Tychem[®] ThermoPro will help protect during escape from a flash fire situation.
- Wearing any flammable clothing over FR protective clothing will negate the FR protection of the FR protective clothing.
- If any item of PPE fails in use, retreat to a safe area and discontinue use of that item of PPE until the cause is determined and suitability for use is confirmed.

Disclaimer

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