



FEVDI

NUCLEAR CHEMICAL DECONTAMINATION PRODUCTS 2018

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FABRICATION **E**TUDE ET **V**ENTE DE **D**ÉGRAISSANTS **I**NDUSTRIELS

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ASPIGEL (PATENT CEA – AREVA NC)

Auto-dry gel for decontamination without generating liquid waste

Product name	PMUC N°	Application
ASPIGEL 050-052	-	Auto dry gels for oily and greasy materials. Can be used to all kind of materials except for aluminium alloys. ASPIGEL 052 version is an organic free products
ASPIGEL 100 or 100V	-	Auto dry gels for the decontamination of stainless steel. ASPIGEL 100V, green when applied, blue after drying, it can be seen through lead glass.
ASPIGEL 100 E	-	Auto dry gels for the decontamination of stainless steel. No ammonium ion, no risk of ammonium nitrate formation into the flakes
ASPIGEL 200	-	Auto dry gels for the decontamination of ferrous metals (mild steel, carbon steel, etc.).
ASPIGEL 300	-	Auto dry gels for the decontamination of lead
ASPIGEL 400	-	Auto dry gels for the decontamination of aluminum alloys
ASPIGEL 500	-	Auto dry gels for the decontamination of concrete.



The ASPIGEL dries into flakes which come off from the support by gravity. The flakes are does not contain fine particles and can be vacuumed easily with an vacuum cleaner.

Example of decontamination with ASPIGEL 100



1—SPRAYING



2—DRYING



3—VACCUMED

Contact us for more information about the FEVDI special equipment and tools

OXIDIZING OR REDUCING DECONTAMINATION PRODUCTS

For nuclear dismantling or maintenance of stainless steel with fixed contamination

Product name	PMUC N°	Application	Properties
CERIMOUSS Low-Med-Strong	02-078	Oxidizing foams to remove fixed contamination on vertical surfaces or hollow bodies.	Oxidizing products without ammonium, to be used in combination 50/50 with FEVDIMOUSS NEUTRE allowing erosions from 0.05 to 0.3 µm on stainless steel 316 L.
FEVDIRAD OX1 Gel or Liquid	02-056	To remove fixed contamination. The liquid version is used in bath.	Oxidizing products. The gel erodes about 1 µm after being in contact between 1.5 to 2h, followed by rinsing with high pressure (150 bars). The erosion with the liquid version is much faster, avoid on parts with precise dimensions machining.
FEVDIRAD OX2 ASP03	02-058	To remove fixed contamination without generating effluents.	Oxidizing gel which forms a dry residue after drying and comes off the support by gravity. The dry residue does not contain fines particles
FEVDIRAD OX3	02-059	To remove fixed contamination.	Oxidizing gel that generates an erosion of about 0.6 µm after contact of 1.5 to 2h, followed by rinsing with high pressure (150 bars).
FEVDIRAD OX5 Gel or Liquid	02-060	To remove fixed contamination. The liquid version is used in bath.	Oxidizing products. The gel erodes >1µm after being in contact between 1.5 to 2h, followed by rinsing with high pressure (150 bars). The erosion with the liquid version is much faster, avoid on parts with precise dimensions machining.
FEVDIRAD OXE Gel or Liquid	02-062	To remove fixed contamination. The liquid version is used in bath.	Oxidizing products without ammonium . The gel erodes > 1µm after being in contact between 1.5 to 2h, followed by rinsing with high pressure (150 bars). The erosion with the liquid version is much faster, avoid on parts with precise dimensions machining.
FEVDIRAD RB	02-061	Gel to be applied before the oxidizing gels to increase their efficiency	Reducing gel, highly alkaline, which allows a weakening and a shifting of the layers of magnetite.

ACID DECONTAMINATION PRODUCTS

Product name	PMUC N°	Application	Properties
FEVDIRAD AC2 GEL	02-063	Decontamination and passivation of stainless steel; lead decontamination; dissolution of the crystallized sodium hydroxide; detachment of silicone seals (gel version).	Highly acid gel, pH 0
EFEVDIRAD AC2 LIQUID	02-063		Highly acid liquid, pH 0
FEVDIRAD AC2 FOAM	02-063		Highly acid foaming liquid, pH 0
FEVDIREM DS	02-042	Decontamination of sensitive surfaces (Silver ¹¹⁰ Ag captured)	Non-foaming acid liquid, leaving no trace, even without rinsing. pH 2,5
DECONTAPLAST	-	Decontamination of plastic materials, by wiping or bath.	Decontamination by superficial attack of plastic materials, without changing their appearance or transparency.

DECONTAMINATION TOWELS

Product name	PMUC N°	Application	Properties
ALCATUM TOWELETTES	02-065	Degreasing and cleaning of smooth surfaces.	Leave no trace after drying. Box of 15 bags of 20 towels 32x40cm.
ALCATUM TOWELETTES for Floor	02-065	Floor cleaning. Specially designed for trapeze broom	Leave no trace after drying. Box of 6 bags of 25 towels 32x60cm.
ROULSO ROULGA (refill)	02-065	Degreasing and cleaning of smooth surfaces. Useful for personal wearing suit	Bucket containing 1 roll of 60 towels 32x27cm towels that leave no trace after drying. Refills available.
MICROFIBER dry or with Alcatum	02-065	Cleaning and wiping of smooth surfaces. Towels compatible with acids (nitric, FEVDIRAD range).	Non-woven dry towels, cellulose-free, 100% polyester. Box of 20 bags of 25 towels 32x40cm.

ALKALINE DECONTAMINATION PRODUCTS

Product name	PMUC N°	Application	Properties
ALCATUM	02-065	Used in foam with foaming tools such as CAMUNI or MULTIPOL tools to decontaminate reactor pools, spent fuel casks surface, etc.	Alkaline decontaminant sodium-free and minerals-free. Weakens the dry film of FIXATEUR LP5
ALCATUM HO	02-073	Decontamination on hot surfaces. Application with: foam gun, heated bath, hot water or steam machine.	Alkaline decontaminant sodium-free and minerals-free, specially designed for hot temperature application. Foaming product.
FEVDIRAD AL GEL	-	Decontamination of walls or vertical surfaces. Contact surface: 1h to 1h30.	Highly alkaline degreasing decontaminants. Does not erode stainless steel. It can be used as a primary before applying an acid or oxidizing product, on fatty pieces. Dissolve boron crystals and calamine. Rinsing with high pressure is required after treatment.
FEVDIRAD AL LIQUIDE	02-0518	Immersion Contact : 45 min to 1h30.	
FEVDIRAD AL MOUSSE	02-088	Pipes and other hollow parts, vertical surfaces, pools. Contact : 5 to 10 min.	
FEVDIREM DNB	02-047	Used in high pressure machine, ultrasonic machine or manually (as pad).	Alkaline non-foaming liquid decontaminant with high degreasing power (pH = 13,5). Weakens the dry film of FIXATEUR LP5 and LP6

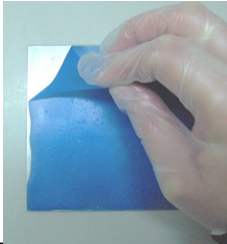
TEXTILES DECONTAMINATION PRODUCTS

Product name	PMUC N°	Application	Properties
FEVDIREM MD	-	For the pre-washing of textiles.	Wetting and prevent redeposition detergent.
FEVDIREM DT	-	Decontamination of any textile.	Decontaminating acid liquid.
FEVDIREM DT2	02-020	To remove scale in washing machines.	Descales, decalcifies, unclogs calcium. Insensitive to water hardness. Does not form a precipitate.
NUCLEON 3	02-021	For all textiles, cotton or synthetic, and shoes.	Decontaminating washing liquid.
NUTRIUM	-		Enzymatic decontaminating washing liquid. Cloth whitening
FEVDIREM AST	02-001	Fabric softener.	Leaves a pleasant smell to textiles

NEUTRAL DECONTAMINATION PRODUCTS

Product name	PMUC N°	Application and Properties
QUANTUM	02-048	Neutral non-foaming liquid decontaminant. Mainly used in machine for decontamination of floors.
FEVDIMOUSS NEUTRE	02-080	Neutral foaming liquid, used in combination with CERIMOUSS. Can be used pure in foam gun or diluted, to degrease and decontaminate at neutral pH.
GNS 054	-	Neutral auto-dry gel to remove dust, labile contamination and degrease supports

PROTECTIONS

Product name	PMUC N°	Application and Properties
RETENSIPH	24-078	Product with a very low evaporation rate, specially formulated for the filling of holding tanks and siphons. It prevents air calls from ducts, in rooms with depression. In case of fire, it prevents the spread of fire and gases.
FIXATEUR LP5 (colorless)	-	PREVENTION : Forms a colorless protective film on any surface. Temporary or permanent protection. Application by brush, roller or spray. CURATIVE : Sets the contamination on all supports. Good mechanical strength.
FIXATEUR LP6 (white)	03-096	The FIXATEUR LP5 is weakened in contact with ALCATUM The FIXATEUR LP6 is weakened in contact with FEVDIREM DNB Then, it can be easily removed with water.
FIXAPRO P01 (colorless)	-	 <p>Forms a peelable film after drying. The film can be removed manually with little effort. Recommended for short-term protection (a few days) and decontamination of surfaces. Do not use on parts in water immersion.</p>
FIXAPRO P02 (blue)	-	
FIXAPRO P03 (blue)	03-095	Forms a blue peelable film after drying. The film can be removed manually without effort, even on parts with complex geometry. Recommended for the protection of surfaces of all durations (a few days to a few months). Can be used on parts in water immersion for short duration (1 week).
AEROFIX		Contamination fixer in aerosol. Temporary or permanent protection of all supports (tissue, vinyl, etc.) by fixing all particles. Forms a film resistant to high temperature and UV, but which eliminates during the washing.

STRIPPERS


Product name	PMUC N°	Application	Properties
BIODECAP 02 GEL	01-105	<p>Used for stripping paint of welder of polar crane bogies to allows the detection of microcracks.</p> <p>Also used for stripping of inks, markers and graffiti. Can be used on all supports.</p> <p>BIODECAP 02 removes many paints, even lead paints, without being corrosive.</p> <p>BIODECAP 03 has a faster action and is recommended for paints insensitive to neutral pH strippers (eg : floor epoxy paints).</p> <p>BIODECAP 04 has a deep action, so can remove several layers in a single application.</p>	Gel paint stripper at neutral pH
BIODECAP 02 LIQUID	-		Liquid paint stripper at neutral pH
BIODECAP 03 GEL	01-106		Gel paint stripper at acid pH
BIODECAP 03 LIQUID	-		Liquid paint stripper at acid pH
BIODECAP 04 GEL	-		Gel paint stripper at acid pH, without safety labeling.
BIODECAP 04 LIQUID	-		Liquid paint stripper at acid pH, without safety labeling.

SOLVENTS

Product name	PMUC N°	Application and Properties
BIOSOLV	-	Security solvent for degreasing parts. Dissolution of resins and inks. Biodegradable and not classified. Flash point > 100°C.
BIOSOLV 5	-	Security solvent for degreasing parts. Dissolution of resins and inks. Decontamination of glove boxes. Biodegradable and not classified. Flash point > 65°C.
BIOSOLV N7 GEL	01-161	Solvent for adhesive joints of steam generator hand holes and other adhesives, resins and inks. Degreasing of parts. Flash point: 43°C.
BIOSOLV N6 LIQUID	01-134	Finishing product dissolving adhesive joints of steam generator hand holes and other adhesives, resins and inks. Degreasing of parts. Fast drying. Flash point: 43°C.
FEVDISOLV N5	02-081	Degreasing decontaminating solvent with fast drying. Very low odor (free of aromatics). Flash point: 42°C.

With over 40 years of experience, its laboratory of tests and formulation, and close collaborations with public research institutions, **FEVDI** meets all your needs in specific chemicals and answers your technical problems.

FEVDI develops, manufactures and sells chemical products such as :

- detergents and degreasers,
- paint and varnish strippers, concrete cleaners, etc.,
- nuclear decontamination fluids, foams and gels 
- peelable films and protection coatings,
- Self-drying and vacuumable decontaminating gels :
"ASPIGEL" (patents CEA - AREVA NC).

For more information about our products, please visit our website or contact us: www.fevdi.fr.

FEVDI designs and manufactured spraying equipment for the application of its fluids, foams and gels.

All products subject to a PMUC number (products and materials used in nuclear power plants) are approved by EDF. These products are identified by the label on their packaging :



The whole team **FEVDI** is at your disposal to provide solutions to your technical problems. If necessary, our laboratory Research and Development can carry out specific products for your needs.

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