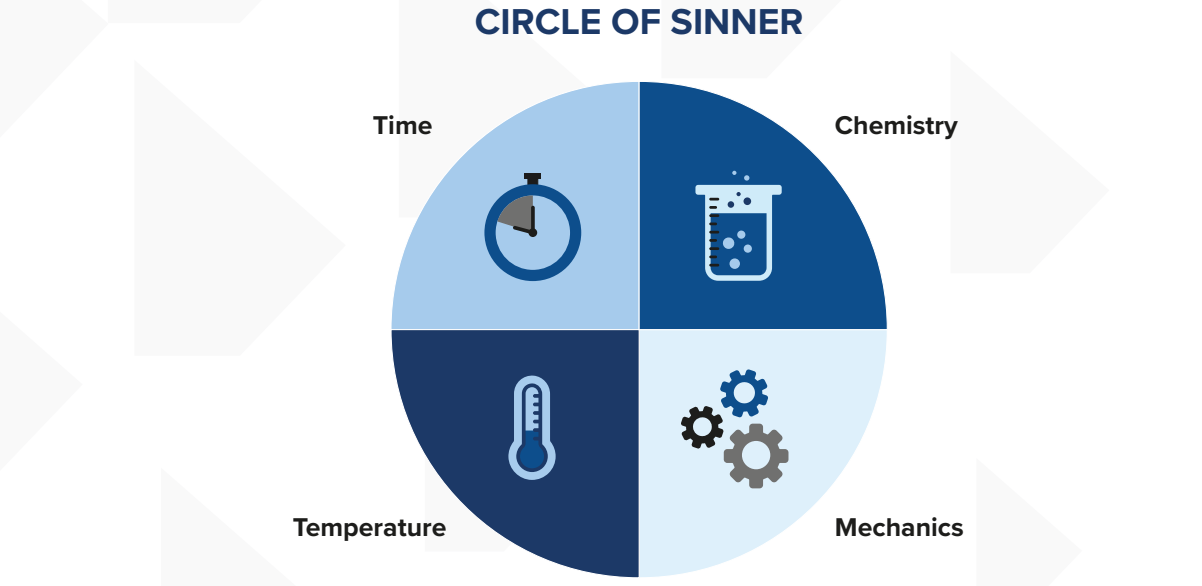


TYPE OF CONTAMINATION	EXPLANATION	EXAMPLES
Natural fats	Animal fats, vegetable oils, often polar	Skin oil (sebum), tallow, beeswax, cooking oil and fat, biofilm
Petrochemical	Non-polar hydrocarbons from petroleum distillates	Mineral oils, fuel oil, petroleum jelly, lubricating greases, bitumen, tar, formwork release oil
Chemical / synthetic	Non-petrochemical, non-natural substances	Silicones, adhesive residues, synthetic resins, ink, PU residues, plaster stains, graffiti, solder flux
Biological	Carbohydrate- and protein-rich contamination	Proteins, insect residues, algae, mould, pollen, tree resin, blood
Mineral deposits	Often caused by water evaporation or efflorescence; require acid treatment	Limescale, saltpetre, cement residue, urine scale
Oxidation products	Caused by metal degradation, may leach out or run off	Rust, verdigris, zinc corrosion, mill scale, welding oxides
Pigments, dust	Mechanically or statically bound particles, may be strongly hydrophobic	Welding fumes, stone dust, brake dust, soot deposits, desert dust, salt spray



SYMBOL	EXPLANATION
	GHS 02: Flammable substances Mixtures with a flash point below 60°C. Risk of ignition at room temperature.
	GHS 05: Corrosive Mixtures classified as 'Strong skin corrosive', which may cause permanent eye damage or which are corrosive to aluminium or steel.
	GHS 07: Exclamation mark A 'collective pictogram' for milder hazards, such as slightly acutely toxic products, skin or eye irritants, or, for example, products that may cause dizziness.
	GHS 08 Health hazard ('Radiant man') Indicates the most serious long-term health effects. There are various classifications that can trigger this symbol: Proven or Strong suspicion of carcinogenicity - Proven or Strong suspicion of reproductive toxicity. Serious toxicity to specific organs (kidneys, liver, brain, etc.). Serious risk of lung damage (chemical pneumonia) if swallowed. This applies specifically to most bulk petrochemical solvent cleaners (not in aerosol form).
	GHS 09: Environment Serious risk to aquatic organisms. These products must never be discharged into 'ordinary' waste water.



EC 648/2004

EC 648/2004 is the European Detergents Regulation. When a product is described as “biodegradable in accordance with EC 648/2004”, this specifically means: The surfactants (surface-active agents) in the product must meet the requirement for ultimate biodegradability: at least 60% must be broken down within 28 days in a standardised test. This is not a non-binding marketing claim; it is a legal requirement for detergent products entering the EU market. Not every cleaner falls under EC 648/2004. For other types of cleaner, there are no legal requirements regarding biodegradability.



pH

pH is a measure of how acidic or alkaline a particular product is. You can only determine the pH of a water-soluble product. Petrochemical solvents therefore do not have a pH. It is a scale from 0 to 14, where a pH of 7 indicates a pH-neutral product. All substances with a pH between 0 and 7 are acidic. All substances with a pH above 7 are basic or alkaline. The further away from seven, the more acidic or alkaline the product is.



NSF Foodsafe

The food industry requires certified food-safe cleaning products. That is why the Novatio range includes various products that hold NSF Food Safe certification. NSF uses different codes for product categories. A full list of these can be found in the NSF Whitebook.

Relevant NSF categories

	NSF CODE	INTENDED USE
CLEANING AGENTS	A1	General cleaning agent
	A2	Cleaning by immersion, steam cleaners or mechanical cleaners
	A3	Acid cleaning agent
	A4	Floor and wall cleaning agent
	A5	Floor and wall cleaning agent for cold stores and freezers
	A6	Cleaning agent with abrasives
	A7	Metal polish- no food contact
LUBRICANTS	H1	Lubricant with incidental food contact
	H2	Lubricant without incidental food contact
	H3	Soluble oils
SOLVENT CLEANERS	K1	Solvent cleaner for use outside production areas
	K2	Cleaners for electronic instruments
	K3	Removal of adhesives
MISCELLANEOUS	P1	Miscellaneous products



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We make making things better



❖ Cleaning Guide
Windows and doors

	Product	Description	Chemistry	Natural fats	Petro-chemical	Chemical / synthetic	Biological	Mineral deposits	Oxidation products	Pigments, dust	NSF foodsafe	pH	Biodegradable EG 648/2004	Hazard symbols		Product	Description	Chemistry	Natural fats	Petro-chemical	Chemical / synthetic	Biological	Mineral deposits	Oxidation products	Pigments, dust	NSF foodsafe	pH	Biodegradable EG 648/2004	Hazard symbols	
	AIRCLEAN	Scented cleaner for air conditioning and sanitary systems	alcohol	-	-	-	Strong	-	-	-			Yes	 			NOVAKLEEN HEAVY DUTY	Concentrated cleaner for all surfaces	alkaline	Strong	Suitable	-	Strong	-	-	-		13,4	Yes	
	AQUASOLV	Dilutable cleaning concentrate for natural soiling	alkaline	Strong	Suitable	-	Strong	-	-	Suitable		12,9	Yes				NOVAKLEEN PH13	Liquid deep cleaner for natural dirt	alkaline	Strong	Suitable	-	Strong	-	-	-	A1	12,7	Yes	
	B-CLEAN	Neutral cleaner for air conditioning and sanitary systems	alcohol	-	-	-	Strong	-	-	-			Yes	 			NOVAKLEEN PH9	Liquid deep cleaner for natural dirt	alkaline	Strong	Suitable	-	Strong	-	-	-	A1	9,1	Yes	
	BIO-PASTE R&D	Paste for cleaning, polishing and protecting.	abrasive	Strong	Suitable	Suitable	Strong	Strong	Strong	Suitable		10,1	Yes				OXI-REMOVER	Oxidation remover	neutral	-	-	-	-	-	Strong	-		9,5		
	CA CLEAN	Limescale-removing and rust-removing surface cleaner	acid	-	-	-	-	Strong	Strong	-		1,2	Yes				OXI-REMOVER GEL	Oxidation remover	neutral	-	-	-	-	-	Strong	-		9,5		
	CA REMOVER HD R&D	Limescale-removing concentrate	acid	-	-	-	-	Strong	Strong	-		0,1		 			POWERSOLV	Powerful universal solvent	Solvent	Strong	Strong	Strong	Suitable	-	-	-				 
	FA CLEAN R&D	Cleaner for organic dirt	alcohol	Strong	Suitable	-	Strong	-	-	Suitable		11	Yes				RUST REMOVER	Neutral rust remover	neutral	-	-	-	-	Suitable	Strong	-	6		pure & smart 	
	GLASS-CLEANER	Professional glass cleaner	alcohol	Strong	Suitable	-	Strong	-	-	Suitable		7	Yes				SAFETY CLEAN	Solvent for chemical soiling	Solvent	Suitable	Strong	Strong	-	-	-	-				   Bulk
	KLEENSPRAY-S	Metal cleaner	solvent	Strong	Strong	Strong	Suitable	-	-	Suitable				    Bulk			SAFETY CLEAN FS	Solvent cleaner and degreaser for the food industry.	Solvent	Suitable	Strong	Strong	-	-	-	-	K1, A1			   Bulk
	MAG CLEANER	Concentrated cleaner and protector for atmospheric dirt	alcohol	-	-	-	Strong	-	-	Suitable		7,5	Yes	 			SAFETY CLEAN R&D	Cleaner for chemical soiling	Solvent	Suitable	Strong	Strong	-	-	-	-				   Bulk
	MEGACLEAN	Cleaning, diluting and etching of epoxy.	solvent	Strong	Strong	Strong	-	-	-	-		7		 			SAFETY CLEAN GEL	Thick solvent for chemical soiling	Solvent	Suitable	Strong	Strong	-	-	-	-				 
	MULTIFOAM	Foaming cleaner for natural soiling	alcohol	Strong	Suitable	-	Strong	-	-	Suitable		10,4	Yes				SFX-131 SURFX CLEANER	Intensive cleaner for professional use	neutral	Strong	Suitable	Suitable	Strong	Niet	Niet	Suitable	A1	7	Yes	pure & smart 
	MULTIFOAM FS	Foaming cleaner for natural soiling for the food industry	alcohol	Strong	Suitable	-	Strong	-	-	Suitable	A1	11,1	Yes				SLX-112 SOLVX CLEANER	Safe Heavy Duty Solvent Cleaner	neutral	Strong	Strong	Strong	Suitable	-	-	-	A1	7	Yes	pure & smart 
	MULTIFOAM R&D	Foaming cleaner for natural soiling	alcohol	Strong	Suitable	-	Strong	-	-	Suitable		10,4	Yes				SOLVETRON	Metal degreaser	Solvent	Strong	Strong	Strong	Suitable	-	-	-				    Bulk
	NOVA WIPE	Cleaning wipes in resealable box	solvent	Strong	Strong	Strong	Suitable	-	-	Strong		5	Yes				XPR-100 EXTREME REMOVER	Removal of graffiti, paint, soot, ink, adhesive and PUR foam	Solvent	Strong	Strong	Strong	-	-	-	-				
	NOVACARE SHAMPWAX R&D	Shampoo for windows, doors and glass	alcohol	Strong	Suitable	-	Strong	-	-	-		6	Yes				XPR-200 EXTREME REMOVER	Removal of graffiti, paint, soot, ink, adhesive and PUR foam	Solvent	Strong	Strong	Strong	-	-	-	-				pure & smart 
	NOVAIR	Blowing, drying, shrinking and freezing	neutral	-	-	-	-	-	-	Strong							XPR-90 WAX & GLUE REMOVER R&D	Removal of adhesive residues and wax	Solvent	Strong	Strong	Strong	-	-	-	-			Yes	