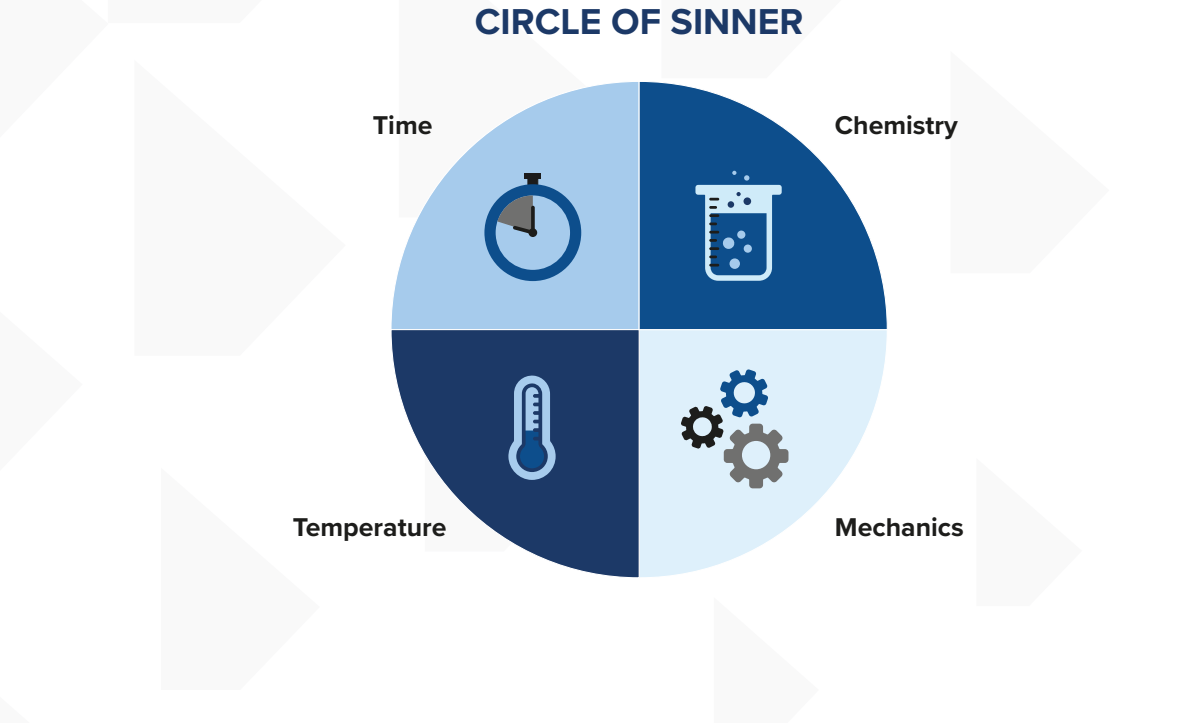


TYPE OF CONTAMINATION	EXPLANATION	EXAMPLES
Natural fats	Animal fats, vegetable oils, often polar	Skin oil (sebum), tallow, beeswax, cooking oil and fat, biofilm
Petrochemical	Non-polar hydrocarbons from petroleum distillates	Mineral oils, fuel oil, petroleum jelly, lubricating greases, bitumen, tar, 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



Industrielaan 5B, 2250 Olen - Belgium
+32 14 25 76 40 - info@novatio.be - www.novatio.com

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❖ Cleaning Guide Industry

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	 	 NOVAIR	Blowing, drying, shrinking and freezing	neutral	-	-	-	-	-	-	Strong					
 AQUASOLV	Dilutable cleaning concentrate for natural soiling	alkaline	Strong	Suitable	-	Strong	-	-	Suitable		12,9	Yes		 NOVAIR FORCE	Powerful blowing and dust removal	neutral	-	-	-	-	-	-	Strong					
 BCL-110 BRAKE CLEANER	Brake cleaner	solvent	Suitable	Strong	Suitable	-	-	-	Strong			Yes	  	 NOVAKLEEN HEAVY DUTY	Concentrated cleaner for all surfaces	alkaline	Strong	Suitable	-	Strong	-	-	-	-		13,4	Yes	
 B-CLEAN	Neutral cleaner for air conditioning and sanitary systems	alcohol	-	-	-	Strong	-	-	-			Yes	 	 NOVAKLEEN PH13	Liquid deep cleaner for natural soiling	alkaline	Strong	Suitable	-	Strong	-	-	-	-	A1	12,7	Yes	
 BIO-PASTE	Paste for cleaning, polishing and protecting	abrasive	Strong	Suitable	Suitable	Strong	Strong	Strong	Suitable		10,1	Yes		 NOVAKLEEN PH9	Liquid deep cleaner for natural soiling	alkaline	Strong	Suitable	-	Strong	-	-	-	-	A1	9,1	Yes	
 CA CLEAN	Limescale-removing and rust-removing surface cleaner	acid	-	-	-	-	Strong	Strong	-		1,2	Yes		 NOVELEC	Contact cleaner	Solvent	Strong	Strong	Suitable	Suitable	-	-	-	-				   
 CA REMOVER HD	Industrial descaler	acid	-	-	-	-	Strong	Strong	-		0,1		 	 OXI-REMOVER	Oxidation remover	neutral	-	-	-	-	-	Strong	-		9,5			
 FA CLEAN	Cleaner for organic soiling	alcohol	Strong	Suitable	-	Strong	-	-	Suitable		11	Yes		 OXI-REMOVER GEL	Oxidation remover	neutral	-	-	-	-	-	Strong	-		9,5			
 FLOOR CLEAN	Concentrated floor cleaner	neutral	Strong	-	-	Strong	-	-	Suitable		7,8	Yes		 POWERSOLV	Powerful universal solvent	Solvent	Strong	Strong	Strong	Suitable	-	-	-	-				 
 FOAM CLEANER	Powerful cleaner for uncured PU foams	solvent	Suitable	Strong	Strong	-	-	-	-				 	 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 soiling	alcohol	-	-	-	Strong	-	-	Suitable		7,5	Yes	 	 SFX-131 SURFX CLEANER	Intensive cleaner for professional use	neutral	Strong	Suitable	Suitable	Strong	Niet	Niet	Suitable	A1	7	Yes	pure & smart 	
 MEGACLEAN	Cleaning, diluting and etching of epoxy.	solvent	Strong	Strong	Strong	-	-	-	-		7		 	 SLX-112 SOLVX CLEANER	Safe Heavy Duty Solvent Cleaner	neutral	Strong	Strong	Strong	Suitable	-	-	-	-	A1	7	Yes	pure & smart 
 MULTIFOAM	Foaming cleaner for natural soiling	alcohol	Strong	Suitable	-	Strong	-	-	Suitable		10,4	Yes		 SOLVETRON	Metal degreaser	Solvent	Strong	Strong	Strong	Suitable	-	-	-	-				    Bulk
 MULTIFOAM FS	Foaming cleaner for natural soiling for the food industry	alcohol	Strong	Suitable	-	Strong	-	-	Suitable	A1	11,1	Yes		 XPR-100 EXTREME REMOVER	Removal of graffiti, paint, soot, ink, adhesive and PUR foam	Solvent	Strong	Strong	Strong	-	-	-	-					
 NOVA WIPE	Cleaning wipes in resealable box	solvent	Strong	Strong	Strong	Suitable	-	-	Strong		5	Yes		 XPR-200 EXTREME REMOVER	Removal of graffiti, paint, soot, ink, adhesive and PUR foam	Solvent	Strong	Strong	Strong	-	-	-	-				pure & smart 	
 NOVACARE SHAMPWAX	Protective shampoo	alcohol	Strong	Suitable	-	Strong	-	-	-		6	Yes		 XPR-90 SAFE REMOVER	Removal of hardened grease, silicone, adhesive residues and wax	Solvent	Strong	Strong	Strong	-	-	-	-			Yes	 	