

IMPASOL® BIO SOLVENT

BIOTECHNOLOGICAL REMOVER

TECHNICAL REMOVER FOR PAINT, PAINT, EPOXIDE, POLYMER AND POLYURETHANE

IMPASOL® BIO SOLVENT is a product based on the latest research in biotechnology, it is a very powerful surface cleaner and a new generation paint remover.

4 MOST BASIC PRODUCT FEATURES:

- ✚ FREE OF OIL DERIVATIVES AND CHEMICALS
- ✚ NO HAZARDS TO THE ENVIRONMENT AND CONSUMERS
- ✚ 100% BIOLOGICALLY SUPPORTED and VOC-FREE
- ✚ EXCELLENT EFFICIENCY
- ✚ ECONOMICAL

IMPASOL® BIO SOLVENT absolutely meets these criteria and thus differs from conventional removers that are based on poisonous, toxic and flammable solvents or aggressive water mixtures.

IMPASOL® BIO SOLVENT offers an immediate, simple and economical solution for all stripping operations. **It has no negative impact on health and the environment.**

IMPASOL® BIO SOLVENT is specifically formulated for the removal of all types of paints, varnishes and inks, efficacy extended to resins, polyurethanes and polymers. It is ideal for the highly effective and economical removal of a wide range of paints, as well as polymer systems, polyurethane pressure systems. Extra strong at removing any contaminants that cannot be removed by other BIO products.

Specifically for the removal of acrylic and alkyd resins, vinyls, one and two component epoxy resins, one and two component polyurethanes used in industry where it greatly improves economic (NO evaporation loss), working (very easy application) and safety (safe BIOTECHNOLOGICAL REMOVER) conditions.

REMOVES systems:

- ✚ Air polymerized
- ✚ Oven fired
- ✚ UV cured

IMPASOL® BIO SOLVENT does NOT wash off or dry out, even with long contact it does NOT lose its effectiveness and ability to remove old coarse layers or to act on a large surface area in one application. Ideal for open washing systems and baths.

This product allows you to reduce the amount used by up to 80% compared to conventional products. It has a much greater hiding power than most traditional strippers, due to its SMOKE, its minimal evaporation rate and its ease of application without hazardous factors.

IMPASOL® BIO SOLVENT can be rinsed with hot and cold water under low and high pressure, thus greatly reducing economic costs and evaporation rates.

ADVANTAGES:

- + COLD and HEAT CLEANER
- + IDEAL FOR ULTRASOUND
- + ECONOMIC
- + Anti-corrosive
- + Guaranteed free of poisonous, carcinogenic and toxic substances
- + SAFE without VOCs
- + FIRELESS
- + NON-TOXIC
- + ODOURLESS

Guaranteed free of VOCs, AROMATES, CHLOR, BROM, GLYCOL, HEAVY METALS, CFCs, HCFCs, HFE and petroleum derivatives. We guarantee no methylene chloride, which is classified as CARCINOGEN R 40.

IMPASOL® BIO SOLVENT is used neat, cold or hot up to 60°C. The individual parts can be cleaned by soaking and ultrasonic cleaning. At higher surface temperatures and at elevated temperatures (up to +60°C) it accelerates removal very significantly. The evaporation rate is also increased. The surface can then be cleaned with water under both low and high pressure, which better removes paint, varnish and dirt residues, thus greatly reducing the economic cost and evaporation rate.

IMPASOL® BIO SOLVENT is applied with a rag, brush, dipping, in a tank, spraying (spraying), dipping, with or without mixing (circuits). The time (duration) of surface cleaning (removal of old coatings) depends on the nature of the deposit or coating to be removed, its thickness and the degree of curing (polymerization). Also at what temperature the removal is carried out or whether ultrasound has been used. **IMPASOL® BIO SOLVENT** is able to remove weak coatings (5-10µm) in approximately 6 to 10 minutes. In case of removing multiple layers of coating this time can be even longer (1 hour or more depending on the layers of coating).

The use of **IMPASOL® BIO SOLVENT** VOC-free does not require any subsequent investment in expensive washing lines, extraction, safety measures, special storage of flammable and corrosive substances, etc.. It adapts very easily to any stripping and degreasing process (very suitable for soaking and immersion baths). **IMPASOL® BIO SOLVENT** removes even old polymer coatings and paints, varnishes, coatings that have been air-dried, air-polymerized, oven-baked or ultraviolet-baked:

Construction paints and varnishes

- Acrylic and water-based epoxy
- Solvent-based alkyds

Paints and varnishes for industrial floors

- Alkyd-urethane single component. solvent-based
- Epoxy single component with or without solvents
- Epoxy single component water-based
- Polyurethane, single component with or without solvents

Coatings and basic metal protection

- Alkyd-urethane monocomposite. solvent-based
- Epoxy single component with solvents
- Polyurethane single component with solvents

Coatings on metal surfaces

- Solvent-based modified alkyd
- Epoxy single component with solvents
- Polyurethane single component with solvents
- Solvent-based vinyl

Coatings, protective varnishes for wood

- Water-based acrylics
- Solvent-based modified alkyd
- Alkyd-urethane monocomposite solvent-based
- Polyurethane single component water-based

Coatings, varnishes required in the firing of mechanical structures in furnaces, sheet metal rolling mills

- One-component epoxy
- Polyester single and two-component
- Polyurethane and vinyl one-component

OCCUPATIONAL AND ENVIRONMENTAL SAFETY - VOC

IMPASOL® BIO SOLVENT can also be used for degreasing and cleaning as a replacement for harmful petroleum products. **It meets the most stringent occupational** (health protection, non-flammable, non-toxic, use in closed and unventilated areas) **and environmental** (100% biodegradable according to OECD 301 B) **requirements under very favourable economic conditions.** It is ideal for the excellent removal of mineral oils, dirt, fuels, emulsion oils as well as for the degreasing of lubricants, paints, varnishes and inks used in screen printing. It is compatible with all materials such as metals, plastics, elastomers and rubbers. You will completely solve labour and environmental issues in your company and avoid possible penalties for non-compliance with very strict environmental and labour regulations.

Na **IMPASOL® BIO SOLVENT** is not covered by the EU VOC (Emissions) Regulation. However, the main reason for its development (BIOTECHNOLOGY) is the desire to produce a completely safe product that will NOT have a negative impact on human health. Due to the absence of solvents (oil fractions and VOCs), handling **IMPASOL® BIO SOLVENT** cannot cause any occupational disease (n°84).

DEVELOPED TO IMPROVE HYGIENE

IMPASOL® BIO SOLVENT contains NO solvents, releases no harmful fumes.

PLEASANT TO USE - HEALTH PROTECTION

IMPASOL® BIO SOLVENT does NOT release any HAZARDOUS vapors that could damage the respiratory tract or cause severe headaches or intoxication. The fumes are not harmful to human health and allow **IMPASOL® BIO SOLVENT** to be operated continuously. In addition, its smell (odour) is very faint.

IMPASOL® BIO SOLVENT DOES NOT HARM WORKERS' HEALTH, its composition fully complies with occupational safety and environmental requirements, as it does not release any VOCs, hazardous fumes and petroleum derivatives.

IMPASOL® BIO SOLVENT is NOT classified as FLAMMABLE, HAZARDOUS, TOXIC, HARMFUL TO HEALTH, HAZARDOUS TO THE ENVIRONMENT, etc.

Does not contain AROMATES, BENZENES, CHLOR, BROM and other very hazardous substances and compounds. **IMPASOL® BIO SOLVENT** is not absorbed by the skin (unlike other degreasers and removers), thus reducing the risk of allergies and skin diseases.

IMPASOL® BIO SOLVENT does not harm health and does not cause occupational diseases.

IDEAL FOR OPEN WASHING (BATHTS, OPEN LINES, TANKS, ETC.), NO SUCTION REQUIRED. IN NO WAY HARMFUL TO WORKERS' HEALTH.

SAFETY OF THE BIOTECHNOLOGICAL REMOVER

- ✚ Without oil derivatives
- ✚ Without methylene chloride
- ✚ Without methanol
- ✚ Without methyl ethyl ketone (MEK)
- ✚ Free N-methyl-pyrrolidone (NMP)
- ✚ Free of acids
- ✚ Without etching sodium carbonate
- ✚ Free of phosphorus derivatives

IMPASOL® BIO SOLVENT does not contain petroleum derivatives. Many conventional removers contain hydrocarbons, often even strongly aromatic, which are harmful and even cause serious environmental problems (poisons for aquatic organisms, poor or no biodegradability). On the other hand, the market for hydrocarbon solvents is subject to strong geopolitical pressures such as the inevitable shortage of oil. However, we at HF Servis, IMPASOL BIO division have come up with a proposal for sustainable solutions and **IMPASOL® BIO SOLVENT** is one of them.

IMPASOL® BIO SOLVENT is not hazardous to the user.

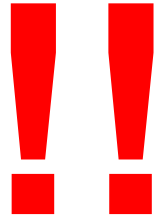
The removal of old coatings, paints, varnishes or surface coatings requires the use of strong and aggressive products dangerous to the user.

These removers can be solvent-based:

Methylene chloride..... carcinogenic and highly volatile or easily inhaled
Methanol..... toxic and very volatile or easily inhaled
N-methyl-pyrrolodone..... toxic, mainly for reproduction, easily absorbed through the skin
Aromatized hydrocarbons..... harmful, toxic, extremely flammable, and very volatile
Methyl-ethyl-ketone..... extremely flammable and highly volatile, toxic

These strippers can be water-based and etching ingredients:

Phosphoric acids..... corrosive, skin and respiratory corrosive
Formic acid..... corrosive, corrosive to skin and respiratory tract
Etching sodium carbonate..... etching:skin-dissolving, respiratory-burning
Alcohol solutions..... harmful by ingestion and inhalation
Organic phosphate, triethyl phosphates....harmful, not biodegradable



IMPASOL® BIO SOLVENT does not contain any of these hazardous ingredients.

Its composition is not hazardous to the health of the user (according to the European Council Regulation of 9 November 2004): the ingredients are neither poisonous, nor carcinogenic, nor mutagenic, nor toxic (as regards reproduction), nor harmful, nor irritant, nor sensitizing, nor corrosive.

IMPASOL® BIO SOLVENT is very pleasant to use. It is almost odourless and does not dry the skin. It is minimally volatile and does not cause dizziness, headaches or the urge to vomit.

IMPASOL® BIO SOLVENT is not hazardous to the environment. It is minimally volatile - 0% emission of organic vapours into the air. It allows cleaning workshops to comply without problems with the limits set by the legal regulation concerning the EU VOC regulation since 29 May 2000. The product does not emit any harmful compounds that would deplete the ozone layer.

DEGREASING LIQUID - LOW VAPOUR PRESSURE

IMPASOL® BIO SOLVENT does not release any VOCs and does not belong to the VOC category. Its use is not subject to compliance with vapour limits (regulated, diffused and flushed). It offers an excellent alternative to other volatile degreasers and fully complies with the regulations in the event of the introduction of the ISO 14000 "EMS". **IMPASOL® BIO SOLVENT** is economical. It does not evaporate suspended particles and does not unnecessarily increase consumption by evaporation.

NON-FLAMMABLE PRODUCT - IGNITION DEGREE IS OVER 60°C

IMPASOL® BIO SOLVENT is a very safe degreasing liquid. Its very high ignition point guarantees that no flammable vapour is released at ambient temperature, thus eliminating the risk of creating an explosive atmosphere. It can be used for all available conventional washing methods (soaking, ultrasonic washing, immersion, cloth, low pressure spraying). It also allows degreasing at temperatures up to 60C without the formation of flammable vapours, thus significantly increasing efficiency.

ENVIROMENT - ENVIRONMENT

IMPASOL® BIO SOLVENT is very rapidly biodegradable (OECD 301B test) and 100% biodegradable (OECD 302C test). **IMPASOL® BIO SOLVENT** is harmless in the event of release into the environment (its components are non-toxic to flora, fauna and the aquatic environment) and has no consequences for the general public. **IMPASOL® BIO SOLVENT** can be used for outdoor paint and paint removal without any negative impact on the environment, without endangering or polluting it. It does not release any volatile components and as a result has no effect on the ozone layer and the warming of the atmosphere caused by the greenhouse effect. It is free of VOCs and petroleum substances, and does not contribute to air pollution through VOCs.

IMPASOL® BIO SOLVENT GUARANTEED WITHOUT VOC NEEDS NOTHING !
IMPASOL® BIO SOLVENT does not require a permit for use, does not need to send reports on its use and register waste, and 100% complies with Decree 355 and the **EU HEALTH AND ENVIRONMENTAL PROTECTION DIRECTIVE !!!**

It meets the OECD 301 b test for biodegradability and is totally biodegradable according to the OECD 302 c test.

REDUCES THE NEGATIVE EFFECTS OF DEGREASERS WHEN CLEANING SURFACES

COMPLIES WITH HEALTH PROTECTION REGULATIONS AND TREATIES

COMPLIES WITH ENVIRONMENTAL REGULATIONS AND LAWS

The user of VOC products must e.g. report the use of these products and consumption according to:

- ✚ NOTICE SHEET FOR USERS OF ORGANIC SOLUTIONS (pursuant to Section 2(i) of this Decree) Annex No 6 to Decree No 355/2002 Coll. on VOLATILE ORGANIC SUBSTANCES AND PRODUCTS CONTAINING THEM
- ✚ Report the use of these products 'in the open' to the municipal authorities
- ✚ Have equipped warehouses for VOCs, e.g.:
- ✚ The roof and external walls of tanks above ground level are coated with a reflective coating with a total reflectance of radiant heat energy of at least 70%.

Ensure occupational safety:

- ✚ Ventilation of flammable, combustible and hazardous fumes
- ✚ Worker respiratory protection - masks, filters, closed breathing circuits
- ✚ Protective work equipment - gloves for carbon products, face shields
- ✚ Non-flammable and anti-static equipment for applications

IMPASOL® BIO SOLVENT DOES NOT HAVE THIS SYMBOL!



IDEAL FOR OPEN WASHING (BATHS, OPEN LINES, TANKS, ETC.), NO EXTRACTION REQUIRED. NO HARM TO WORKERS' HEALTH.

CHARACTERISTICS	NORMA	VALUE	UNIT
Appearance	Visual	Fluid	
Colour	Internal CQ 016	Amber	
Scent		Extremely weak scent	
Volume-weight (25°C)	EN ISO 12185	968	Kg/m ³
Flash point	ISO 2719	80	°C
Autoignition point	ASTM E 659	>270	°C
Gelatinisation point		1	°C
Vapour pressure (20°C)	NF M 07 007	<0.05	kPa
Bottom explosive limit		NON-EXPLOSIVE	% v/v
Upper explosive limit		NON-EXPLOSIVE	% v/v
COV content		0	%
Aromatic content Elements, CL , Br		0	ppm
Heavy metal and glycol content		0	ppm
CFC, HCFC, HFE content		0	ppm
KB index, dissolution capacity	ASTM D 1133	300	

Instructions for use:

IMPASOL® BIO SOLVENT is a pure remover applicable to all types of materials. Clean components by soaking in a bath with or without ultrasound. The bath can be heated to up to 60°C, thus greatly accelerating the removal process. We can also apply **IMPASOL® BIO SOLVENT** and then (after softening and peeling off the layer) rinse with pressurized water for quick removal of coarse dirt (paints, varnishes, coatings), this will also reduce the consumption of **IMPASOL® BIO SOLVENT** and speed up the evaporation to about 15-20min.. The removal time depends on the thickness (thickness) and degree of curing (polymerization), the removal temperature and the possible use of ultrasound. **IMPASOL® BIO SOLVENT is able to remove weak coatings, coatings (5-10µm) in approximately 6 to 10 minutes. In the case of removing multiple layers of coating, this time can be even longer (1 hour or more depending on the layers of coating).**

For faster evaporation, we recommend blowing the cleaned parts with warm air (60°C) for a few minutes or using **IMPASOL® BIO SOLVENT** at temperatures up to 60C to achieve fast drying.

- Cloth, swab, brush - Washing tables - Immersion tanks - Spraying – Ultrasound

PACKAGING : 20l canister, 200l drum

STORAGE : Store out of reach of children and away from sources of ignition.

HEALTH AND SAFETY : Avoid contact with eyes. Read safety data sheets before use. The values given are averages and do not represent a specification.

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IMPASOL®
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