

DCP BIOMEX HDI

SAFE ALKALINE CLEANING CONCENTRATE

This water-based, biodegradable multipurpose cleaner and degreaser is not only environmentally friendly but also safe to humans. While its high alkalinity provides a deep cleaning and degreasing effect, DCP Biomex HDI acts as a corrosion inhibitor on aluminum surfaces and can be applied to any surface except glass.

Free from chlorinated and petroleum solvents, bleach, ammonia, caustics, phosphates, phosphonates, NTA, and EDTA.



Suitable for:

- Corrosion-sensitive and corrosion-resistant metal parts: including aluminum, stainless steel, titanium and copper
- Plastics, rubbers, and epoxy resins
- Lacquered or coated surfaces
- Painted surfaces
- Ceramic tiles
- (Natural) stone: granite, marble, slate, etc.
- Colorfast fabrics

Specifications:

- Classification: H318 (causes serious eye damage)
- Appearance at 20°C: Clear Liquid
- Odour: Neutral
- Freezing Point: <-4 °C
- Storage: 0°C - 35°C
- Cloud Point: 59°C
- Flammability: Will not ignite readily
- pH at 20°C: 12.6 (100%)
- Density at 20°C: 1.04 g/cm³
- Solubility in Water: Fully

Effective against:

- Both light and heavy oil residues
- Fuel oil and fuel leaks
- Stubborn fats, proteins, and burnt-on food residues
- Insect residues
- Fire smoke damage
- Soot and carbon deposits
- Chemical residues
- Nicotine stains
- Old (polish) wax layers to be removed
- Stains and unpleasant odours
- Static dirt



Biodegradable

Only contains readily-biodegradable components.



Metal safe

Safe to use on metals such as aluminium and stainless steel.



Alkaline cleaner

High alkaline cleaning power, yet not corrosive to metals!



Certified usage approvals

Multiple certifications for various industries (e.g. aircraft, liquid oxygen).



Made in Westmalle, Belgium by DCP bv
Zeepakker 14,
2390 Westmalle

info@dcp-chemicals.com
<https://www.dcp-chemicals.com>
+32(0)3309 44 51

Cleaning Technology	Materials and some specific examples	Operating Procedure
Ultrasonic cleaning	<p>Deep cleaning of fine mechanical industrial parts (Corrosive) metals (ASML grade 2 compliant)</p> <ul style="list-style-type: none"> • Metal processing • Industrial mechanical components: casts, cylinders, pistons, heat exchangers • Cutting tools • Automotive parts: gearbox parts, carburetors • Electronic casings and parts <p>Plastics and rubbers</p> <ul style="list-style-type: none"> • Housing for electronic devices • Liquid oxygen devices (ISO 11114-3 certified by Air Liquide) • Laboratory equipment • 3D printing components 	<ul style="list-style-type: none"> • It is recommended to use demineralized or distilled water to operate the ultrasonic bath • Mix Biomex HDI with water in the ultrasonic bath. • Ensure proper dilution depending on the degree of soiling (10 – 50 mL Biomex HDI / 1 L water) • Preheat the solution to 40 – 60 °C and set the bath to the proper frequency • Load the soiled item in the ultrasonic bath; the cleaning time varies between 5 and 20 minutes • After completion, remove the cleaned item from the bath and rinse thoroughly with demineralized/distilled water to remove any residual solution • If cleaning is not fully satisfactory, repeat the cleaning procedure and increase cleaning time and/or concentration
Dip and degreasing tanks	<p>General maintenance and deep cleaning of industrial materials and parts; big and small (Corrosive) metals</p> <ul style="list-style-type: none"> • Hydraulic system components • Metal plates and sheets • Dies and molds <p>Plastics, rubbers and coated surfaces</p> <ul style="list-style-type: none"> • Synthetic sealants, gaskets, hoses • Casing and housing for electronics • Engine covers • Machine components <p>Ceramics</p> <ul style="list-style-type: none"> • Tiles • Insulators 	<ul style="list-style-type: none"> • It is recommended to use demineralized or distilled water to operate dip and degreasing baths • Mix Biomex HDI with water in the degreasing bath. • Ensure proper dilution depending on the degree of soiling (10 – 50 mL Biomex HDI / 1 L water) • Preheat the solution to 40 – 60 °C • Load the soiled item in the degreasing bath; the cleaning time varies between 5 and 20 minutes • After completion, remove the cleaned item from the bath and rinse them thoroughly with demineralized/distilled water to remove any residual solution • If cleaning is not fully satisfactory, repeat the cleaning procedure and increase cleaning time and/or concentration
Maintenance and parts washers	<p>General maintenance and deep cleaning of industrial materials and parts (Corrosive) metals</p> <ul style="list-style-type: none"> • Industrial mechanical components • Working tools and equipment • Construction materials • Air filters for industrial use, e.g., gas turbines <p>Plastics, rubbers and coated surfaces</p> <ul style="list-style-type: none"> • Tubing and piping • Casing, covers and housing • Filters <p>Ceramics</p> <ul style="list-style-type: none"> • Insulators 	<ul style="list-style-type: none"> • It is recommended to use demineralized or distilled water to operate the parts washer • Follow the instructions of the parts washer to add Biomex HDI; dilution depends on the degree of soiling: general maintenance (25 – 50 mL Biomex HDI / 1 L water), deep cleaning (100 – 200 mL Biomex HDI / 1 L water) • Inspect soiled item for loose or large contaminants which can be removed manually • Start the cleaning cycle: the recommended temperature varies between 30 – 40 °C and duration between 10 – 20 minutes • After completion, remove the cleaned item from the parts washer and rinse with demineralized/distilled water to remove any residual solution • If required, dry the cleaned item with compressed air or lint-free cloths • If cleaning is not fully satisfactory, repeat the cleaning procedure and increase cleaning time and/or concentration
High- and low-pressure cleaning	<p>General maintenance and deep cleaning of industrial and residual surfaces, areas, materials and parts (Corrosive) metals</p> <ul style="list-style-type: none"> • Fences • Metal constructions, scaffolding • Motor and bicycle parts <p>Plastics, rubbers</p> <ul style="list-style-type: none"> • Plastic cladding <p>Ceramics and natural stone</p> <ul style="list-style-type: none"> • Brick walls and facades • Tiles and paving • Pottery <p>Coated and painted surfaces</p> <ul style="list-style-type: none"> • Aircraft applications (AMS 1523, AMS1533A, AMS 1537A, Boeing D6-17487 and Douglas CSD #1 certified by SMI) • Painting degreasing pretreatment • Outdoor furniture <p>Colorfast textile</p> <ul style="list-style-type: none"> • Tent covers, tarpaulins and awnings 	<ul style="list-style-type: none"> • Optimal cleaning is achieved by using demineralized or distilled water • Follow the instruction of the high- or low-pressure cleaning device to add Biomex HDI • Ensure proper dilution: general maintenance (50 – 100 mL Biomex HDI / 1 L water), deep cleaning (100 - 500 mL Biomex HDI / 1 L water) • Recommended operating temperatures range between 20 – 40 °C • Inspect soiled item for loose or large contaminants which can be removed manually • Evenly spray the soiled surface with the diluted cleaning solution and let it soak for 5 – 20 minutes • After completion, rinse the surface with water; if required, dry the cleaned surface with a lint-free cloth • If cleaning is not fully satisfactory, repeat the cleaning procedure and increase cleaning time and/or concentration
Manual cleaning	<p>General maintenance of industrial and residual surfaces, areas, materials and parts (Corrosive) metals</p> <ul style="list-style-type: none"> • Kitchen equipment: ovens, BBQs, grills, fryer, filters • Road signs <p>Plastics, rubbers and epoxies</p> <ul style="list-style-type: none"> • Utensils and equipment • Flooring: laminate and linoleum • Vehicle interiors <p>Ceramics and natural stone</p> <ul style="list-style-type: none"> • Tiles and paving <p>Coated and painted surfaces</p> <ul style="list-style-type: none"> • Interior and technical areas: walls, ceilings, doors, closets and cupboards 	<ul style="list-style-type: none"> • Optimal cleaning is achieved by using demineralized or distilled water • Inspect the soiled item for loose or large contaminants which can be removed manually • Dilute Biomex HDI with water, dilution depending on the degree of soiling (50 – 500 mL Biomex HDI / 1 L water) • Recommended operating temperatures range between 20 – 40 °C • Evenly wet the soiled item with the diluted cleaning solution and let it soak for 5 – 20 minutes • After completion, rinse the item with water; if required, dry the cleaned item with a lint-free cloth • If the cleaning is not fully satisfactory, repeat the cleaning procedure and increase cleaning time and/or concentration

Wear protective gloves, clothes and eye protection

If uncertain about material compatibility, test Biomex HDI first on a small, hidden area