

WATER WORKS™

BY KETECA

EXPERIENCE
THE
POWER
OF
WATER

HEAVY DUTY

DEGREASER CONCENTRATE

**ENVIRONMENTALLY SAFER • UNIQUE WATER-BASED FORMULA
BIODEGRADABLE • SOLUBLE NON-TOXIC • NON-CAUSTIC
NON-CORROSIVE • NON-FLAMMABLE • NON-COMBUSTIBLE**

www.ketecawaterworks.com

This product meets Green Seal™ Standard GS-34 based on effective performance and protective limits on: VOCs, ozone depleting chemicals, and human & environmental toxicity. GreenSeal.org.



Nonfood Compounds
Program Listed CATEGORY C1
Registration #141453



HIMS



WARNING NO GHS PICTOGRAMS H320 - CAUSES EYE IRRITATION

IF IN EYES; Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

PLEASE RECYCLE THE CONTAINER • POR FAVOR, RECICLE EL CONTENEDOR

PPE Safety Glasses, Gloves • Gafas de seguridad y guantes

**SAFE TO USE:
WATER WORKS™**

Concentrated unique water-based formulas are environmentally safer.

- Unique water-based formulas are environmentally safer.
- Quickly removes grease, oils, and grime.
- Contains no silicone to interfere with new coatings or paint.
- Safe for use on CNC machines and can be used with coolant.
- Designed for use in parts washer, soak and immersion tanks, ultrasonic washers, pressure washers, and steam cleaners.
- Janitorial and Sanitary cleaning.
- Does not affect water treatment process, for regulatory compliance.

USE INSTRUCTIONS

APPLICATION	DILUTION
LIGHT TO MEDIUM DUTY CLEANING	USE AT 7:1
HEAVY DUTY CLEANING	USE AT 2:1 TO 4:1

Clean at 105°F and provide sufficient agitation.

KEEP THIS PRODUCT AND ALL CLEANERS OUT OF REACH OF CHILDREN. DISPOSE OF PRODUCT IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. CONSULT SDS FOR MORE INFORMATION.
KETECA USA | (877) 418-1306 | 4280 W. OPPORTUNITY WAY, PHOENIX, AZ 85086

ADVERTENCIA NO GHS PICTOGRAMAS H320-CAUSA IRRITACIÓN OCULAR

EN CASO DE CONTACTO CON LOS OJOS: Enjuague continuamente con agua durante varios minutos.

En caso de usar lentes de contacto, removerlos si es posible.

SEGURO DE USAR: Fórmula concentrada única a base de agua resulta ser ambientalmente mas segura.
WATER WORKS™

- Elimina rápidamente la grasa, aceites y mugre.
- No contiene siliconeto interfiere con nuevos revestimientos o pintura.
- Seguro para su uso en máquinas de control numérico y se puede utilizar con refrigerantes.
- Diseñado para su uso en lavadoras de piezas, remojo y tanques de inmersión, lavadoras de ultrasonidos, lavadoras a presión, y limpiadores de vapor.
- Limpieza y limpieza Sanitaria.
- No afecta el proceso de tratamiento de agua, para el cumplimiento regulatorio.

INSTRUCCIONES DE USO

APLICACION	DILUCION
LIMPIEZA GENERAL	USO EN 7:1
LIMPIEZA DE TRABAJO PESADO	USO EN 2:1 A 4:1

Limpiar a 105 ° F y proporcionar suficiente agitación

MANTENGA ESTE PRODUCTO Y TODAS LIMPIADORES FUERA DEL ALCANCE DE LOS NIÑOS. DISPONER EL PRODUCTO EN CONFORMIDAD CON LAS NORMAS FEDERALES, ESTATALES Y LOCALES. CONSULTAR SDS PARA MÁS INFORMACIÓN.

5 GAL



MADE IN USA

LOT#



Water Works™ Heavy Duty Degreaser Concentrate Certified Compliance List *



Test Compliance	Description	Dilution	Materials Tested
Boeing D6-17487 Rev. P	Exterior and General Cleaners and Liquid Waxes, Polishes and Polishing Compounds	Full Strength & 1:9	Sandwich Corrosion Test Acrylic Crazing Test Paint Softening Test Hydrogen Embrittlement test
Douglas Aircraft Company Customer Service Document CSD No. 1	Materials and Procedures for General Exterior Cleaning of Painted and Unpainted Surfaces (General Purpose Cleaner)	Full Strength & 1:9	Effect on Painted Surfaces Residue Sandwich Corrosion Stress Crazing Test on Acrylic Plastics Immersion Corrosion, Aluminum Cadmium Removal Hydrogen Embrittlement
AMS 1526C	Cleaner for Exterior Surfaces Water-Miscible, Pressure-Spraying Type	Full Strength & 1:9	Sandwich Corrosion Total Immersion Corrosion Low-Embrittling Cadmium Plate Hydrogen Embrittlement Flash Point Effect on Transparent Acrylic Plastics Effect on Painted Surfaces Effect on Unpainted Surfaces
ARP 1755B	Effect of Cleaning Agents on Aircraft Engine Materials. Stock Loss Test Method. Category 10: Aqueous Cleaner	1:1	As specified in standard method.
ARP 1755B	Effect of Cleaning Agents on Aircraft Engine Materials. Stock Loss Test Method.	1:1	AMS 4434 (AZ92 Magnesium).
ASTM F 483	Standard Test Method for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals	2:1	AMS 5046 (1020 Steel) AMS 5517 (301 Stainless Steel)
ASTM F 483	Standard Test Method for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals	Full Strength	AMS 5046 (1020 Steel) AMS 5517 (301 Stainless Steel)
ASTM F 519	Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments	1:9	Type 1a1, low-embrittling cadmium plated in accordance with MIL-STD-870 Type I Class 1.
ASTM F 519	Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments	1:9	Type 1c, low-embrittling cadmium plated in accordance with MIL-STD-870 Type I Class 1.
Pratt & Whitney PWA 36604 Rev. D	Compatibility with PWA 407 Rubber	1:1	ASTM D 816 Method B, Type 1.
Pratt & Whitney PWA 36604 Rev. D	Stress Corrosion	1:9	ASTM F 945, Method A using AMS 4916.
Pratt & Whitney PWA 36604 Rev. D	Hot Corrosion	1:1	AMS 5544 (Waspaloy) AMS 5536 (Hastelloy X) AMS 5608 (Haynes 188) AMS 5508 (Greek Ascoloy) AMS 6359 (4340 Steel) AMS 4037 (2024-T3 Aluminum) AMS 4375 (AZ31B-0 Magnesium)
Pratt & Whitney PWA 36604 Rev. D	Compatibility with Non-Metallic Materials	Full Strength	AMS 7267 Silicon Rubber AMS 7271 Butadiene-Acrylonitrile Rubber AMS 7273 Fluorosilicone Rubber AMS 7276 Fluorocarbon Rubber PWA 407 Rubber
Pratt & Whitney PWA 36604 Rev. D	Stress Corrosion	1:1	ASTM F 945, Method A using AMS 4911.



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Industry Approval	Description	Dilution	Test Method	Materials Tested
Honeywell (Allied Signal) EMS 53170	Material Requirements for Aqueous and Semi-aqueous Degreasing	1:1	Appendix A. Etch Rate Test Method	Bare Aluminum (2024-T6) Magnesium (AZ31) Bare low alloy steel (4130) Cadmium Plated steel (QQ-P-416 Type II) Titanium 6-4, Nickel based alloy (INCO625) Ferrous alloy A286, Stainless steel alloy (410 SS)
		2:1	Appendix B. Sandwich Corrosion Test Method (In accordance with ASTM F 1110)	7075-T6, 2024-T3, 7075-76 (spec: MIL-A-8625 Type II, Class 1) 2424-T3 (spec: MIL-A-8625 Type II, Class 1)
		1:1	Appendix C. Intergranular Attack Test Method	Bare Aluminum (2024-T6) Magnesium (AZ31) Bare low alloy steel (4130) Cadmium Plated steel (QQ-P-416 Type II) Titanium 6-4, Nickel based alloy (INCO625) Ferrous alloy A286, Stainless steel alloy (410 SS)
		1:1	Appendix F. Hydrogen Embrittlement Test Method (In accordance with ASTM F519).	Unplated, notched tensile bars made from AISI 4340 in accordance with ASTM F 519, Type 1a.
		1:1	Appendix G. Stress Corrosion and Hydrogen Pickup Test Method (In accordance with ASTM F 945).	AMS 4911 AMS 4916
Honeywell Standard Practices Manual	Approved Engine Cleaner SPM 70-00-02, for T53 Engine Component Parts			
United Airlines Administrative / Technical Manual AC Appearance- UAL	Aircraft Exterior Wash Program			

Conforms to Nuclear Power Parts Cleaning Compatibility Test :

Sulfur wt% <0.005 Zinc PPM <10
Antimony PPM <5 Bismuth PPM <16
Lead PPM <5 Tin PPM <5
Cadmium PPM <0.2

South Coast Air Quality Management District: Certified as a Clean Air Solvent

Compliant with SCAQMD 5 gm / liter when in
dilutions of 2:1 or higher



Water Works™ Heavy Duty Degreaser Concentrate Certified Compliance List *



Certifications

Description

Green Seal

GS-34: Environmental Standard for Cleaning and Degreasing Agents.

The performance requirements for Green Seal GS 34 have been met. The process soil was successfully cleaned at a 33% dilution using immersion cleaning, the maintenance soil cleaning when using ultrasonic energy at a 12.5% dilution of the product and the oil separation was successful when using the 12.5% dilution at room temperature.

Test Compliance	Description	Dilution	Materials Tested
ASTM G-122	Standard Test Method for Evaluating the Effectiveness of Cleaning Agents	33%	304 Stainless Steel Coupon
Mil-PRF87937C	Cleaning Compounds, Aerospace Equipment	33%	304 Stainless Steel Coupon
Mil-C-29602	Cleaning Compounds, for Parts Washers and Spray Cabinets	33%	304 Stainless Steel Coupon

Evaluated with the Irritation Assay System in order to predict its potential for ocular and dermal irritation. The ocular results indicated that the sample of Heavy Duty Degreaser is a mild ocular irritant. The dermal results demonstrated that the sample is a dermal non-irritant.

Aquatic Biodegradability in accordance with ISO 9439.

** "This product meets Green Seal™ Standard GS-34 based on effective performance and protective limits on: VOCs, ozone depleting chemicals, and human & environmental toxicity. GreenSeal.org. "*

NSF

Category Code C1 – C Compound for use on all surfaces in inedible product areas, non- processing areas, and/or exterior areas. Registration Number 141454





Tested Materials Compatibility List

- **Aluminum**
- **Concrete**
- **Acrylic**
- **Stainless Steel**
- **Tin**
- **Titanium**
- **Painted Surfaces**
- **Copper**
- **Carbon Steel**
- **Vinyl**
- **Rubber**
- **Bronze**
- **Viton**
- **Brass**
- **Aerospace grade materials listed with specifics on certifications page**





Water Works™ Heavy Duty Degreaser Concentrate

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Water Works™ Heavy Duty Degreaser Concentrate
SDS Number: KP-5 F1
Product Code: WWHD
Revision Date: 7/11/2023
Version: 12
Product Description: Concentrated industrial aqueous cleaner / degreaser.
Product Use:
Instructions: Industrial cleaner / degreaser.

Minimum recommended dilution ratio 2 parts water: 1 part Heavy Duty Degreaser Concentrate.
Use according to manufacturer's directions.

Keteca USA, Inc encourages and expects the user to read and understand the entire (M)SDS, as there is important information throughout the document. We expect the user to follow the precautions identified in this document unless the user's use conditions would necessitate other appropriate methods or actions.

Supplier Details: Keteca USA, Inc
4280 W. Opportunity Way
Phoenix, AZ 85086

Phone: 877-418-1306

Emergency Telephone Number: CHEMTREC
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Health, Causes eye irritation, 2 B

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:

no GHS pictograms indicated for this product.

GHS Hazard Statements:

Causes eye irritation.

GHS Precautionary Statements:

IF SWALLOWED: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.
IF ON SKIN: Wash with soap and water.
IF INHALED: Prolonged exposure is not expected to cause adverse effects.
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation: Prolonged exposure is not expected to cause adverse effects.

Skin Contact: Non-irritating.

Eye Contact: May cause slight eye irritation.

Ingestion: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury.



Water Works™ Heavy Duty Degreaser Concentrate

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

The specific chemical identity and chemical composition has been withheld as a trade secret.

The precise composition of this mixture is proprietary information. A complete disclosure will be provided to a physician or nurse in the event of a medical emergency.

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Wash with soap and water.
Eye Contact: Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after the initial 1 -2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician.
Ingestion: If swallowed, seek medical attention if symptoms develop. Do not induce vomiting unless directed to do so by medical personnel.

5 FIRE FIGHTING MEASURES

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.

Fire Fighting Procedures: Use water spray to cool fire exposed containers and fire affected zones until fire is out and danger of reignition has passed. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spilled material may cause a slipping hazard. Use appropriate safety equipment. (See Section 8)

Methods and materials for containment and cleaning up:

Small spills: Absorb with materials such as: sand, vermiculite, absorbent pillows, pads and/or wipes. Do not use water for clean-up. Collect in suitable and properly labeled containers.

Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes. Wash thoroughly after handling.
Storage Requirements: Store indoors away from direct sunlight. Keep containers closed when not in use.
Shelf life: 24 Months



Water Works™ Heavy Duty Degreaser Concentrate

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General ventilation should be sufficient for most operations.
Personal Protective Equipment: HMIS PP, B | Safety Glasses, Gloves

Respiratory Protection: Wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to yellowish
Physical State: Liquid
Odor: Light Citrus
Odor Threshold: No data available
Solubility: Miscible in water in all proportions
Spec Grav./Density: 1.000 +/- 0.005 (Hydrometer)
Viscosity: No data available
Boiling Point: No data available
Freezing/Melting Pt.: 32°F (0 C)
Flammability: no data available
Flash Point: >200°F Test Method SW1010 A
Partition Coefficient: No data available
Vapor Pressure: <1.0 mm Hg @ 68°F (not including water content).
Vapor Density: No data available
pH: 8 - 10
VOC: 75 g/l in "Neat" form. 25 g/l when diluted 2:1 with H₂O, SCAQMD certified clean air solvent.
Evap. Rate: No data available
Auto-Ignition Temp: No data available
Decomp Temp: No data available
UFL/LFL: No data available

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.
Materials to Avoid: This is a water-based product. Strong Acids; Strong Bases; Strong Oxidizing Agents.
Hazardous Decomposition: Will not occur.
Hazardous Polymerization: Will not occur.



Water Works™ Heavy Duty Degreaser Concentrate

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TOXICOLOGICAL INFORMATION

Likely routes of exposure:

- Inhalation:** Prolonged exposure is not expected to cause adverse effects.
Ingestion: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury.
Skin: Non-irritating.
Eyes: May cause eye irritation.

Skin Corrosion/Irritation: Non-irritant per Dermal Irritation assay modeling. No animal testing performed

Eye Damage/Irritation: May cause mild eye irritation per Ocular Irritation assay modeling.

No animal testing performed.

(GHS Hazard category 2B)

Germ Cell Mutagenicity: Mixture does not classify under this category

Carcinogenicity: Mixture does not classify under this category

Reproductive Toxicity: Mixture does not classify under this category

STOT-Single Exposure: Mixture does not classify under this category

STOT-Repeated Exposure: Mixture does not classify under this category

Aspiration Hazard: Mixture does not classify under this category

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ECOLOGICAL INFORMATION

Fish Toxicity

LC50, Pimephales promelas, 96 hour: 156 ppm.

Aquatic Invertebrate Toxicity

LC50, Daphnia pulex, 48 hour: 340 ppm.

Persistence and Degradability Biodegradation Tests:

Fully biodegradable in accordance with ISO 9439.

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DISPOSAL CONSIDERATIONS

Dispose of uncontaminated material into sewer where applicable within Federal, State and/or local laws and regulations.

Disposal of contaminated material must be in compliance with all Federal, State and/or local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

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TRANSPORT INFORMATION

DOT Non-Bulk - NOT REGULATED

DOT Bulk - NOT REGULATED

IMDG - NOT REGULATED

ICAO/IATA - NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.



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REGULATORY INFORMATION

OSHA Hazard Communication Standard This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	No
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

US. Toxic Substances Control Act All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30 **CEPA - Domestic Substances List (DSL)** All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

European Inventory of Existing Commercial Chemical Substances (EINECS) The components of this product are on the EINECS inventory or are exempt from inventory requirements.

CEPA - Domestic Substances List (DSL) All substances contained in this product are listed on the Canadian Domestic Substances list (DSL) or are not required to be listed.

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OTHER INFORMATION

NFPA: Health = 0, Fire = 0, Reactivity = 0, Specific Hazard = None

HMIS III: Health = 0, Fire = 0, Physical Hazard = 0

HMIS PPE: B - Safety Glasses, Gloves



HMIS	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



Keteca USA, Inc urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

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