



INNOVATIVE POLISHING SYSTEMS INC. SDS/GHS

SECTION 1: PRODUCT AND COMPANY INFORMATION

MANUFACTURER'S NAME: **INNOVATIVE POLISHING SYSTEMS, INC.**

ADDRESS: 2810 SE MONROE STREET, UNIT B-, STUART, FLORIDA 34997-5902

PHONE: (772) 283-6668 FAX: (772) 283-6854 EMERGENCY: 1(877) 777-6858 Toll Free

PRODUCT USE/CLASS: POLISHING ENHANCEMENT

PRODUCT NAME: **EXTREME POLISHING ENHANCER 410-411-L**

SECTION 2: INGREDIENTS

<u>CHEMICAL NAME:</u>	WT PERCENT IS	(TLV-TWA, TLV-STEL, PEL- LESS THAN	TWA, SKIN
DESIGNATION) EXETREME POLISHING ENHANCER:	100%		n/a

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS / DATA

pH	7.0 - 8.0	DISPERSIBLE IN WATER	All proportions
DENSITY	0.9900 - 1.000g/ml	TOXICITY	Non-irritating to Skin
VISCOSITY	1000 - 2000 cps	NITRITES & NITRATES	None
FREEZING POINT	26° - 28° F	NITROSAMINE	None
BIODEGRADABILITY	Complete - Non Polluting	SHELF LIFE	Minimum 1 year

PHYSICAL STATE: Liquid
COLOR: Blue

ODOR:	Odorless
BOILING POINT:	230°F
DENSITY (G/ML):	0.9900 - 1.000
SOLUBILITY IN WATER:	Soluble

DISPERSIVE ACTION

Separates and evenly disperses all particles, enabling them to function to their true dimensions and optimizing conchoidal fracturing needed for effective stock removal and surface finishing.

DISTINCT ADVANTAGES

- Prevents agglomerating and "packing"
- Resists settling
- Easily and quickly re-disperses to maximum efficiency even when left undisturbed for extended periods
- Slurry runs in a gently yielding mass
- Facilitates circulation

ADHESIVE ACTION

Enables particles to cling to laps with greater tenacity and remain in contact with the workpiece for longer periods causing abrasive grains to break down into progressively finer particles.

DISTINCT ADVANTAGES

- Greater stock removal per unit time
- Ultimately produces more refined surfaces

LUBRICATIVE ACTION

Keeps the abrasive slurry homogeneous minimizing craters, fissures and micro cracks and requiring fewer fine operations and less polishing time. Frictional forces are minimized reducing lap wear, extending the life of true curves 20-40% on spherical laps and 30-100% on toric laps.

DISTINCT ADVANTAGES

- Prevents abrasives from balling-up
- Eliminates dry-spotting
- Allows faster polishing procedure
- Dramatically extends tool life

ANTI-FOAM ACTIVITY & OTHER CHEMICAL PROPERTIES

Sheerforce Extreme Polishing Enhancer enhances the polishing action while suppressing the foam which can slow down the polishing cycle. It is bacteriostatic and nontoxic.

DISTINCT ADVANTAGES

- Increased production
- No foul odors
- Will not irritate skin

A surfacing additive which accelerates and enhances the action of abrasives and polishing compounds, Sheerforce Extreme Polishing Enhancer yields surfacing qualities unattainable by conventional methods. It is safe, and nontoxic with suspension characteristics that are effective with slurries of all particle size ranges, from rough fining abrasives to sub-micron polishing compounds. With Sheerforce Extreme Polishing Enhancer particles resist settling even when left undisturbed for long periods of time, and slurries are easily re-dispersed to quickly achieve maximum efficiency.

Sheerforce Extreme Polishing Enhancer's dispersive, adhesive, lubricative, and anti-foam properties consistently deliver added processing benefits and results.

SECTION 4: REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS:	NONE KNOWN
INCOMPATIBILITY:	STRONG OXIDIZING AGENTS
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR UNDER NORMAL CONDITIONS
CONDITIONS TO AVOID:	NONE KNOWN
STABILITY:	THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS
MATERIALS TO AVOID:	None

SECTION 5: HEALTH HAZARD DATA

(EFFECTS OF OVEREXPOSURE)

EYE CONTACT:	IRRITATION AND TEARING MAY OCCUR
SKIN CONTACT:	MAY IRRITATE SENSITIVE SKIN
INHALATION:	NONE KNOWN
INGESTION:	MAY CAUSE MILD DIARRHEA
CHRONIC HAZARDS:	NONE KNOWN

(FIRST AID)

EYE CONTACT:	FLUSH WITH WATER 15 MINUTES
SKIN CONTACT:	FLUSH WITH WATER, WASH WELL
INHALATION:	NONE KNOWN
INGESTION:	DRINK LOTS OF WATER IF A LARGE AMOUNT IS INGESTED CALL EMERGENCY NUMBER

PRIMARY ROUTE(S) OF ENTRY:	INHALATION, INGESTION, EYE CONTACT
TOXICITY:	NONE
IRRITATION:	NONE

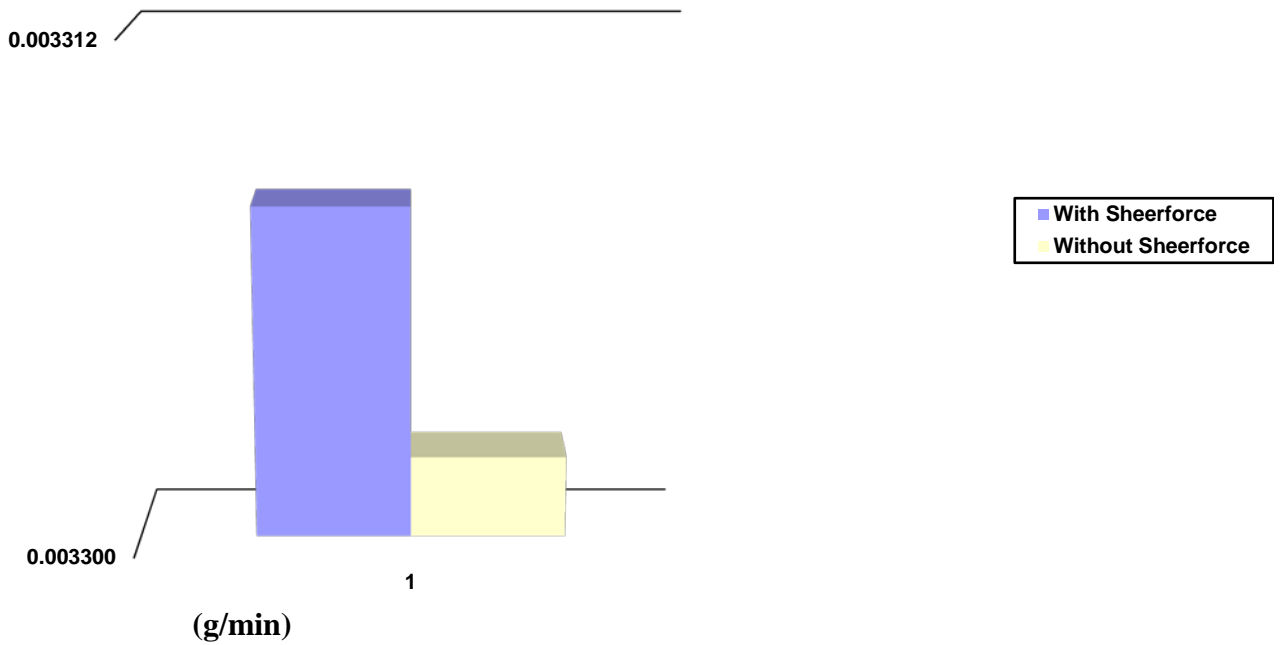
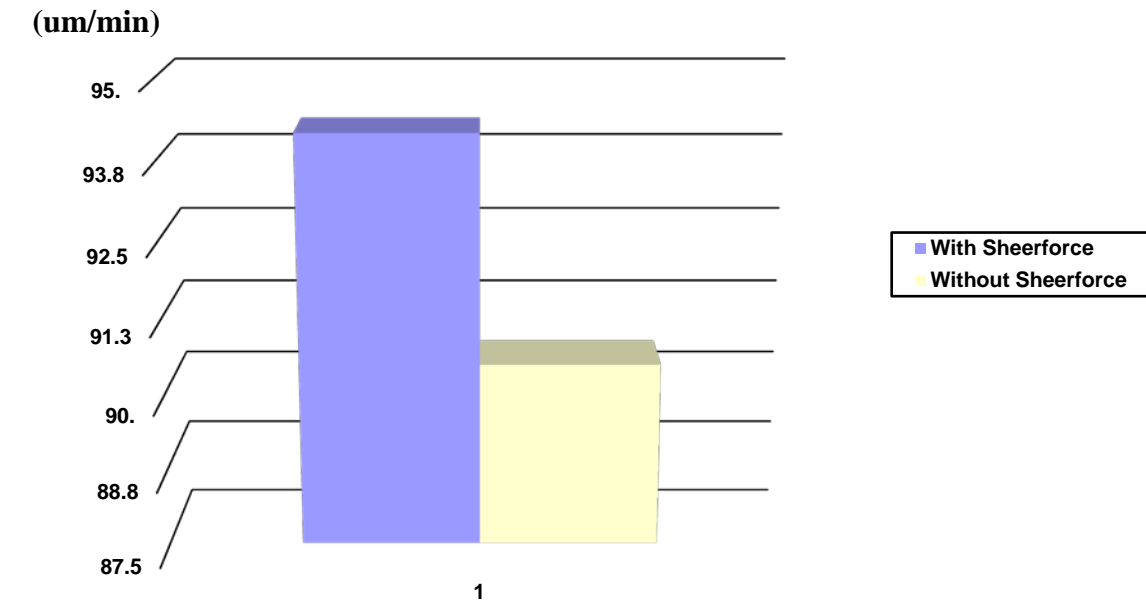


This product contains no hazardous components as defined in the OSHA Hazard Communication Standard (29 CFR 1910-1200).

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Surface Removal Productivity

Lapping



**Polishing
(um/min)**

**Polishing
(g/min)**

In all cases it is recommended to mix the appropriate amount of Sheerforce Extreme Polishing Enhancer with roughly 10 to 20 times that volume of warm water (i.e. Add 3 x 12.5ml Sheerforce Extreme Polishing Enhancer to 8 oz. water). This will speed the migration of the Sheerforce Extreme Polishing Enhancer to all particles in the compound. When creating new slurry, mix the Sheerforce Extreme Polishing Enhancer as above, and then add the polishing/fining powder to the Sheerforce

Extreme Polishing Enhancer mixture and gently agitate, creating "super-saturated" slurry. Add this concentrated slurry to the appropriate volume of water to arrive at the finished slurry.

Summary: As shown in the previous charts, Sheerforce Extreme Polishing Enhancer will enhance the surface removal productivity for both lapping and polishing. The removal rate increased by as much as 4 um with the addition of Sheerforce Extreme Polishing Enhancer to a traditional polishing slurry.

Adding Sheerforce Extreme Polishing Enhancer to a polishing slurry has also proven to reduce scratches.

WASTE DISPOSAL METHOD: Dilute with water- can be flushed into general drainage system.

PRECAUTIONS

RESPIRATORY PROTECTION:	NONE/ NO INFO
VENTILATION:	NONE / NO INFO
SKIN PROTECTION:	SAFTEY GLOVES
EYE PROTECTION:	SAFTEY GLASSES OR GOGGLES
OTHER PROTECTIVE EQUIPMENT:	NONE / NO INFO
HYGENIC PRACTICES:	WASH AFTER EACH USE

STORAGE & HANDLING: Store at ambient temperatures. Do Not Boil, Do Not Freeze. Keep out of direct sunlight if possible. Only dilute into slurry as needed. Keep containers closed, as ingredients may evaporate after extended contact with moving air. Avoid contamination of material.

SECTION 7: SPILL OR LEAKAGE PROCEDURE

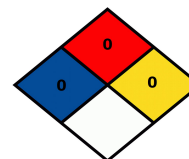
IN CASE OF SPILL OR RELEASED MATERIALS:	DIKE FOR RECOVERY OR DISPOSAL, SMALL AMOUNTS, FLUSH TO SEWER
WASTE DISPOSAL METHOD:	DISPOSE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.
LEAKS AND SPILLS:	Mop up or flush
PERSONAL PROTECTION:	Not needed

SECTION 8: FIRE AND EXPLOSION DATA

FLASH POINT:	NONE / NO INFO
LOWER EXPLOSIVE LIMIT:	NONE / NO INFO
UPPER EXPLOSIVE LIMIT:	NONE / NO INFO
EXTINGUISHING MEDIA:	CO2- DRY CHEMICAL - WATER FOG
UNUSUAL FIRE HAZARDS:	NONE/ NO INFO
SPECIAL FIRE FIGHTING PROCEDURES:	NONE/ NO INFO

SECTION 9: HMIS RATINGS AND OTHER REGULATIONS

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0



Sheerforce Extreme Polishing Enhancer is a unique concentrated liquid additive that accelerates and enhances the action of abrasive and polishing compounds. Performance and suspension characteristics are greatly enhanced by adding Sheerforce Extreme Polishing Enhancer to all types of slurries, yielding improved surface finishes and efficiency.

Originally designed to work with LP materials, Sheerforce Extreme Polishing Enhancer is also used as a pad pre-conditioner prior to charging, the polishing interface with IPS Compound. It keeps the initial friction down and acts like a magnet for the polish to the pad surface when the compound slurry charges the polishing interface. Noticeable reaction in this process is a bubble-free coating of the pad surface. It is recommended that this process should always be used on pads especially for glass polishing.

Sheerforce Extreme Polishing Enhancer is effective in slurries made with particles of all size ranges, from rough fining abrasives to sub-micron polishing compounds. Once in suspension, particles resist settling even when left undisturbed for long periods of time, and slurries are easily re-dispensed to quickly achieve maximum efficiency.

Sheerforce Extreme Polishing Enhancer will also create affinity to pad and tooling surfaces, enabling the slurry to remain in contact with the work surface and provide optimum surfacing performance. Sheerforce Extreme Polishing Enhancer coats all the metallic parts in the system, like car wax, preventing compound from clinging to parts. This reduces maintenance and aids cleanup. Typically, reductions in fining and polishing cycle times, as well as increased surface quality, are a direct result of Sheerforce Extreme Polishing Enhancer usage. Sheerforce Extreme Polishing Enhancer enhanced slurries are also easier to clean from the substrate surfaces.

WHILE INNOVATIVE POLISHING, INC. BELIEVES THAT THE DATA AND INFORMATION CONTAINED HEREIN ARE FACTUAL AND THE OPINIONS ARE THOSE OF QUALIFIED EXPERTS, THEY ARE NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH INNOVATIVE POLISHING, INC. ASSUMES ANY LEGAL RESPONSIBILITY. THEY ARE OFFERED SOLELY FOR THE CONSIDERATION, INVESTIGATION AND VERIFICATION BY THE USER. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS PRODUCT. DATA AND INFORMATION WITH APPLICABLE LAWS AND REGULATIONS.

kc0001B.11.08.msds

All substances used in all compounds of IPS™ used in Glass and Polycarbonate polishing are listed in the following: See below.

REGULATORY INFORMATION: U.S. TSCA – This product and components are manufactured in compliance with all provisions of the Toxic Substances Control Act 15 U.S.C.

CANADA DSL – Components of this product are in accordance with the subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substance List.

EEC-EINECS – All components of this product are included on the European inventory of existing chemical substances (EINECS) in compliance with Council Directive 67/548/EEC Amended 79/831/EEC.

WARNING STATEMENTS:

Based on currently available data, these products DO NOT meet the OSHA definition of a hazardous substance. However, good industrial hygiene practices should be used in handling them.

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information. IPS™ (Innovative Polishing Systems, Inc.) extends no warranties, makes no representations and assumes no responsibilities as to the accuracy or suitability of this information for any purchaser's use or for any consequences of its use.

THE INFORMATION CONTAINED ON THIS MSDS IS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. REVISED 04/19/16 ©