

SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- 1.1 APPLICABLE PART: PC2221025LB, PC2221050LB, PC2221050OZ, PC222110LB, PC22211LB, PC222150LB, PC2221S  
PC22775GL  
PC22841LB  
PC2241025LB, PC2241050LB, PC2241050OZ, PC224110LB, PC22411LB, PC224150LB, PC2241S  
PC2271025LB, PC22711LB, PC227150LB
- 1.2 IDENTITY: NU-SHINE-IIF7, NU-SHINE-IIF7L, NU-SHINE-IIF8, NU-SHINE-IIF9, NU-SHINE-IIF10
- 1.3 INTENDED USE: POLISHING COMPOUNDS FOR METAL
- 1.4 SUPPLIER: Universal Photonics, Inc. FOR INFORMATION CALL  
85 Jetson Lane CUSTOMER SERVICE: (516) 935-4000  
Central Islip, NY 11722 DATE PREPARED: May 11, 2018
- 1.5 EMERGENCY TELEPHONE NUMBER: 1-800-360-3220 Verisk 3E™ - ACCT # 3665

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 CLASSIFICATION OF SUBSTANCE: RESPIRATORY STOT SE3: H335; SKIN IRRITATION 2: H315; EYE IRRITATION 2: H319.  
See Section 8 for individual components.

2.2 GHS LABEL ELEMENTS:



HAZARD PICTOGRAMS:

HAZARD SYMBOL:

GHS07.

SIGNAL WORD:

WARNING.

HAZARD STATEMENTS:

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

PREVENTION PRECAUTIONARY STATEMENTS:

P261: Avoid breathing dust/fumes/mist/vapors/spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection.

Wear protective gloves. Wear eye protection to include splash goggles. Wear protective clothing. Use with ventilation. Wash hands after handling.

## SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

RESPONSE PRECAUTIONARY  
STATEMENTS:

**P302 + P352: IF ON SKIN: Wash with plenty of water.**

**P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.**

**P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.**

**P337 + P313: If eye irritation persists, get medical advice/attention.**

**P301 + P331 + P315: IF SWALLOWED: Do NOT induce vomiting. Get immediate medical advice/attention.**

**In the event of skin, eye, respiratory contact or ingestion, seek medical attention immediately.**

STORAGE PRECAUTIONARY  
STATEMENTS:

**P404: Store in a closed container.**

**Keep container tightly closed when not in use. Do not return spent material back to original container.**

DISPOSAL PRECAUTIONARY  
STATEMENT:

**P501: Dispose of contents/containers in accordance with local/regional/national/international regulations.**

2.3 HAZARDS NOT  
OTHERWISE CLASSIFIED:

**None known.**

2.4 UNKNOWN ACUTE  
TOXICITY:

**None known.**

### SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

COMPONENTS	CAS #	CLASSIFICATION	WEIGHT %
DISTILLATES (PETROLEUM) HYDROTREATED LIGHT	64742-47-8	ASPIRATION TOXICITY 1: H304; SKIN IRRITATION 2: H315; STOT SE 3 (CNS): H336; AQUATIC CHRONIC 2: H411	15 - 20
ALUMINUM OXIDE**	1344-28-1	SKIN IRRITATION 2: H315; EYE IRRITATION 2: H319; RESPIRATORY STOT SE 3: H335	15 - 20
SILICON CARBIDE***	409-21-2	SKIN IRRITATION 2: H315; EYE IRRITATION 2: H319; STOT SE3 (LUNG): H372; CARCINOGENIC 2B: H351	10 - 20
TRADE SECRET INFORMATION*	N/A	PROPRIETARY	40 - 60

NOTES:

- \* Non-regulated components are proprietary, confidential, and trade secret.
- \*\* Aluminum oxide and Silicon carbide dust is minimized through the viscous embodiment of the product.
- \*\*\* Silicon Carbide (non-fibrous / non-whisker) particulate matter containing no asbestos or crystalline silica. (See Section 11.4).

## SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

### SECTION 4: FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES:

- SKIN: **Remove soiled clothing and flush with soap and water.**
- EYES: **Flush with water for 20 minutes and remove contact lenses if safe to do. Immediately seek medical attention.**
- INHALATION: **Administer fresh air or oxygen.**
- INGESTION: **DO NOT induce vomiting. Immediately seek medical attention. If vomiting does occur, keep head low so that vomit does not enter the lungs. Maintain an open airway.**

#### 4.2 MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

- SKIN CONTACT: **May cause dryness, irritation and defatting.**
- EYE CONTACT: **Will cause severe irritation upon direct contact.**
- INHALATION: **Breathing high concentrations of dried dust residues may irritate nose and throat.**
- INGESTION: **Will cause serious gastric disturbances.**
- ENVIRONMENT: **None known.**
- CHRONIC: **None known.**

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

**Immediately contact physician for further medical advice.**

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA:

- SUITABLE EXTINGUISHING MEDIA: **Water spray, foam, dry chemical, CO<sub>2</sub>.**
- UNSUITABLE EXTINGUISHING MEDIA: **None known.**

## SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

### 5.2 SPECIFIC HAZARDS ARISING FROM THE MIXTURE:

FIRE HAZARD:	None.
EXPLOSION HAZARD:	None.
REACTIVITY:	None.
EXPOSURE HAZARDS:	Oxides of carbon.
UNUSUAL FIRE/EXPLOSION HAZARD:	None.

5.3 SPECIAL PROTECTIVE EQUIPMENT: **Wear full protective safety equipment as standard practice.**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

NON-EMERGENCY PERSONNEL:	<b>Wear appropriate personal protective equipment (PPE). Avoid contact with skin and eyes. Do not walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.</b>
EMERGENCY RESPONDERS:	<b>Take note of any special instructions in Section 8.</b>

6.2 ENVIRONMENTAL PRECAUTIONS: **Do not introduce material directly into natural waterways such as rivers, lakes, streams, etc., or drains and sewers.**

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP:

SMALL SPILL:	<b>Stop leak if safe to do so. Use inert absorbent material and dispose in proper chemical waste container, or transfer to approved waste treatment areas.</b>
LARGE SPILL:	<b>Stop leak if safe to do so. Approach release from upwind. Prevent entry into sewers or natural waterways. Contain and collect with inert absorbent material and place in container for disposal according to local regulations (See Section 13). Dispose via a licensed waste disposal contractor.</b>

6.4 REFERENCE TO OTHER SECTIONS: **See Section 8, Exposure Controls and Personal Protection.**

## SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: **Use recognized standard safety practices. Handle with care to avoid contact.**

7.2 CONDITIONS FOR SAFE STORAGE: **When not in use, keep closure on container tightly closed. Store indoors. Keep away from heat and freezing conditions.**

## SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS: **FOR INGREDIENTS**

COMPONENTS	CAS #	TLV (UNITS)
DISTILLATES (PETROLEUM) HYDROTREATED LIGHT	64742-47-8	500 ppm TWA RESPIRABLE DUST (OSHA) 200 ppm TWA TOTAL (ACGIH)
ALUMINUM OXIDE	1344-28-1	15 mg/m <sup>3</sup> TWA (OSHA) TABLE Z-1 AIR 1 mg/m <sup>3</sup> TLV (ACGIH)
SILICON CARBIDE	409-21-2	15 mg/m <sup>3</sup> TWA TOTAL DUST (OSHA) 5 mg/m <sup>3</sup> TWA RESPIRABLE (OSHA) 10 mg/m <sup>3</sup> TLV - PARTICULATE MATTER CONTAINING NO ASBESTOS AND <1% CRYSTALLINE SILICA (ACGIH)

#### 8.2 EXPOSURE CONTROLS:

**CONTROL PARAMETERS:** General ventilation to control worker exposure to airborne contaminants. Ensure that emergency eyewash stations are in the immediate vicinity of any potential exposure.

**ENGINEERING CONTROLS:** If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust or other engineering controls to keep worker exposure below any recommended or statutory limits.

**PERSONAL PROTECTIVE CONTROLS:**

**HYGIENE MEASURES:** Wash hands, forearms and face thoroughly after handling product. Remove contaminated clothing and wash before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**SKIN PROTECTION:** Chemical-resistant, impervious gloves are recommended if exposure is prolonged—neoprene type. Personal protective clothing for the body should be selected based upon the task being performed.

**EYES:** Avoid eye contact. Protective safety eyewear goggles are recommended to avoid exposure to liquid splashes, mists, and dusts, or when working on overhead structures if direct contact is evident.

**RESPIRATORY:** Should vapors exceed permissible exposure limit (PEL), wear NIOSH-approved dust and organic vapor respirator.

#### 8.3 PERSONAL PROTECTIVE EQUIPMENT (PPE):



SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	<b>Cream / paste.</b>
COLOR:	<b>Grey.</b>
ODOR:	<b>Solvent.</b>
ODOR THRESHOLD:	<b>Not determined.</b>
pH:	<b>8.5 – 9.5 @ 25°C.</b>
SOLUBILITY:	<b>Dispersible.</b>
FLASH POINT:	<b>99°C / 210°F.</b>
LOWER FLAMMABLE LIMIT:	<b>None.</b>
UPPER FLAMMABLE LIMIT:	<b>None.</b>
AUTO IGNITION TEMPERATURE:	<b>Not applicable.</b>
DECOMPOSITION TEMPERATURE:	<b>Not applicable.</b>
FLAMMABILITY:	<b>Not applicable.</b>
SPECIFIC GRAVITY:	<b>1.12 - 1.20 @ 25°C.</b>
BOILING POINT:	<b>100°C / 212°F.</b>
VAPOR PRESSURE:	<b>18 mm Hg @ 20°C.</b>
VAPOR DENSITY:	<b>Greater than 1 (Air = 1).</b>
MELTING POINT:	<b>Not applicable.</b>
FREEZING POINT:	<b>Not determined.</b>
EVAPORATION RATE:	<b>Not applicable.</b>
VISCOSITY:	<b>Not determined.</b>
PARTITION COEFFICIENT n-OCTANOL / WATER:	<b>Not determined.</b>

SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1 REACTIVITY: **None.**
- 10.2 CHEMICAL STABILITY: **Stable.**
- 10.3 HAZARDOUS REACTIONS: **Reacts with powerful oxidizing agents.**
- HAZARDOUS POLYMERIZATION: **None.**
- 10.4 CONDITIONS TO AVOID: **None.**
- 10.5 INCOMPATIBLE MATERIALS: **Strong acids and oxidizing agents may cause fires.**
- 10.6 HAZARDOUS DECOMPOSITION OF PRODUCTS: **None.**

**SECTION 11: TOXICOLOGICAL INFORMATION**

NOTE: **Primary route of entry is through skin. Secondary route is through inhalation.**

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS: **FOR INGREDIENTS**

<b>DISTILLATES (PETROLEUM) HYDROTREATED LIGHT (64742-47-8)</b>	
LD50 Oral Rat	> 5,000 mg/kg
LD50 Dermal Rabbit	> 2,000 mg/kg
LC50 Inhalation Rat	NO DATA

<b>ALUMINUM OXIDE (1344-28-1)</b>	
LD50 Oral Rat	> 10,000 mg/kg
LD50 Dermal Rabbit	NO DATA
LC50 Inhalation Rat	> 2.3 mg/kg, 4 hr.

<b>SILICON CARBIDE (409-21-2)</b>	
LD50 Oral Rat	> 2,000 mg/kg
LD50 Dermal Rabbit	NO DATA
LC50 Inhalation Rat	NO DATA

---

## SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

### ACUTE TOXICITY FOR PRODUCT: (See Section 11.3).

LD50:	Not determined for mixture.
SKIN:	Not determined for mixture.
INHALATION:	Not determined for mixture.
INGESTION:	Not determined for mixture.

### 11.2 POTENTIAL ACUTE HEALTH EFFECTS:

SKIN:	Possible irritation and drying during prolonged contact.
EYES:	Will cause severe irritation and possible cornea damage upon direct contact.
RESPIRATORY:	Will irritate nose and throat when breathing high concentrations of dust.
INGESTION:	Will cause serious gastric disturbances.

### SYMPTOMS AFTER CONTACT:

SKIN:	Irritation, dryness, redness.
EYES:	Pain, watering, burning, redness, severe irritation.
RESPIRATORY:	Irritation, asthmatic systems, dizziness.
INGESTION:	Stomach pain, gastric disturbances.

### 11.3 CHRONIC HEALTH EFFECTS:

No known significant effects or critical hazards.

### 11.4 CARCINOGENICITY:

NTP:	None.
IARC:	Silicon carbide whiskers: Group 2A, probable. Silicon carbide fibrous: Group 2B, possibly.
OSHA:	None.



SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY: INFORMATION FOR INGREDIENTS

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (64742-47-8)	
Oncorhynchus mykiss	LL50 = 25 ml/l, 96 hr.
Daphnia magna	EL50 = 1.4 mg/l, 48 hr.
Pseudokirchneriella subcapitata	EL50 = 1 mg/l, 72 hr.

ALUMINUM OXIDE (1344-28-1)	
Salmo trutta	NOEC: 2 mg/l, 96 hr.
Daphnia magna	EL50: 1.4 mg/l, 48 hr.
Selenastrum capricornutum	NOEC: > 72 mg/l, 72 hr.

SILICON CARBIDE (409-21-2)	
Salmo trutta	NO DATA
Daphnia magna	NO DATA
Selenastrum capricornutum	NO DATA

12.2 PERSISTENCE AND DEGRADABILITY: **Not considered to be a waste or environmental hazard.**

12.3 BIOACCUMULATIVE POTENTIAL: **Not expected to bioaccumulate.**

12.4 MOBILITY IN SOIL: **Not determined.**

12.5 RESULTS OF PBT and vPvB ASSESSMENT: **Not determined.**

12.6 OTHER ADVERSE EFFECTS: **No known significant effects or critical hazards.**

SECTION 13: DISPOSAL INFORMATION

13.1 WASTE TREATMENT METHODS: **For small spills, contain all residues with inert absorbent material and dispose in chemical recycle container. For large spills, stop leak if safe to do so. Approach release from upwind. Dyke or dam area and vacuum all wet areas for recycle by a licensed waste disposal contractor. Avoid contact with soil, waterways, drains, and sewers unless such drains and sewers are fully compliant with the requirements of all authorities for disposal. Consult all federal, state, and local regulatory authorities for proper disposal.**

SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

SECTION 14: TRANSPORTATION INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PACKING GROUP	LABEL	ADDITIONAL INFORMATION
DOT CLASSIFICATION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NONE	NONE
TDG CLASSIFICATION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NONE	NONE
ADR/RID CLASSIFICATION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NONE	NONE
IMDG CLASSIFICATION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NONE	NONE
IATA / IACO CLASSIFICATION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NONE	NONE

SECTION 15: REGULATORY INFORMATION

15.1 U.S. FEDERAL REGULATIONS:

OSHA HAZARD COMMUNICATION STANDARD:

Non -regulated.

TSCA:

All ingredients are listed on the TSCA inventory.

SARA (302/304):

Non-regulated.

SARA (311/312):

Acute / delayed health.

SARA TITLE III (313):

This product contains the following chemicals subject to the reporting requirements of Section 313: Aluminum Oxide, 15 – 20%.

OTHER REGULATORY STANDARDS:

Non-regulated per 29 CFR 1900.1000 - 1500, 40 CFR PART 261.3, 302.4, 355, 370, 372.

15.2 STATE REGULATIONS:

**CALIFORNIA PROPOSITION 65:** This product contains the following chemicals known by the state of California to cause cancer, birth defects, or any other reproductive harm: NONE.

15.3 INTERNATIONAL REGULATIONS:

Non-regulated per EINECS / ELINCS / DSL / NDSL / IECSC / ENS / ECL / PICCS.

SAFETY DATA SHEET: NU-SHINE II (F7, F7L, F8, F9, F10)

SECTION 16: OTHER INFORMATION

HMIS RATING: Health 2, Flammability 1, Reactivity 0, Personal Protection H  
NFPA RATING: Health 2, Flammability 1, Reactivity 0



DEFINITIONS:

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR/RID: International carriage of dangerous goods by road or rail  
DOT: Department of Transportation  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA/IACO: International Air Transport Association / International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
NFPA: National Fire Protection Association  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
SARA: Superfund Amendments and Reauthorization Act  
TDG: Transportation of dangerous goods -- Canada  
TSCA: Toxic Substance Control Act

DISCLAIMER

Information included herein was obtained from sources which Universal Photonics, Inc. believes are reliable and accurate as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED, OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Universal Photonics, Inc. ASSUMES NO LEGAL LIABILITY FOR ANY INJURY, ACCIDENT, LOSS, OR DAMAGE THROUGH THE USE OF THIS PRODUCT.