

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

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 APPLICABLE PART: PC2221025LB, PC2221050LB, PC222110LB, PC22211LB, PC222150LB, PC2241025LB, PC2241050LB, PC224110LB, PC22411LB, PC224150LB, PC2241S, PC2271025LB, PC2271050LB, PC22711LB, PC227150LB, PC22841LB

1.2 IDENTITY: NU-SHINE-IIF7, NU-SHINE-IIF9, NU-SHINE-IIF10, NU-SHINE-IIF8

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: January 30, 2019

1.5 EMERGENCY CONTACT: Verisk 3E™ - ACCT # 3665 Access Code: 333748
EMERGENCY TELEPHONE NUMBER: Domestic: 1-866-519-4752 International: +1-760-602-8700

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.

RESPONSE PRECAUTIONARY STATEMENTS: P302 + P352: IF ON SKIN: Wash with plenty of water.

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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	IDENTIFIER	CLASSIFICATION	WEIGHT %
DISTILLATES (PETROLEUM) HYDROTREATED LIGHT	(CAS #)64742-47-8 (EC #)265-149-8	ASPIRATION TOXICITY 1: H304; SKIN IRRITATION 2: H315; STOT SE 3 (CNS): H336; AQUATIC CHRONIC 2: H411	15 - 20
ALUMINA**	(CAS #)1344-28-1 (EC #)215-691-6	SKIN IRRITATION 2: H315; EYE IRRITATION 2: H319; RESPIRATORY STOT SE 3: H335	15 - 20
SILICON CARBIDE***	(CAS #) 409-21-2 (EC #) 206-991-8	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

NOTE: * Non-regulated components are proprietary, confidential, and trade secret.

** Note: Alumina and Silicon Carbide dust is minimized through the viscous embodiment of the product.

***Note: Silicon Carbide (non-fibrous / non-whisker) particulate matter containing no asbestos or crystalline silica.

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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: 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 during prolonged contact.
- EYE CONTACT: Will cause abrasive 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, CO₂.
- UNSUITABLE EXTINGUISHING MEDIA: None known.



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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:	Wear appropriate personal protective equipment (PPE). Avoid contact with skin and eyes. Do not walk through spilled material. Provide ventilation with sufficient face velocity to maintain PEL below standard. Supplement with appropriate organic vapor & dust respirator when ventilation is inadequate.
EMERGENCY RESPONDERS:	Take note of any special instructions in Section 8.

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:	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. Prevent spills from entering all open waterways.
LARGE SPILL:	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.

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

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SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: Minimize exposure to vapors or dusts. Use recognized standard safety practices to include adequate ventilation. Handle with care to avoid contact. Wash with soap & water after handling. Use recognized standard safety practices. Provide sufficient air exchange and exhaust in work areas. Eyewash station should be in close proximity to work area.

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.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS: **FOR INGREDIENTS**

COMPONENTS	COMPONENT IDENTIFIERS	WORKPLACE EXPOSURE LIMIT (WEL)				SUPPLEMENTAL EXPOSURE LIMIT VALUES	BASIS
		LTEL		STEL			
		PPM	MG/M3	PPM	MG/M3		
DISTILLATES (PETROLEUM) HYDROTREATED LIGHT	(CAS #)64742-47-8 (EC #)265-149-8	---	----	----	----	500 ppm TWA RESPIRABLE DUST 200 ppm TWA TOTAL	OSHA ACGIH
ALUMINUM OXIDE	(CAS #)1344-28-1 (EC #)215-691-6	---	----	----	----	15 mg/m3 TWA 1 mg/m3 TLV	OSHA (TABLE Z-1 AIR) ACGIH
SILICON CARBIDE	(CAS #) 409-21-2 (EC #) 206-991-8	---	----	----	----	15 mg/m3 TWA TOTAL DUST 5 mg/m3 TWA RESPIRABLE 10 mg/m3 TLV - PARTICULATE MATTER CONTAINING NO ASBESTOS AND <1% CRYSTALLINE SILICA	OSHA ACGIH

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8.2 EXPOSURE CONTROLS:

CONTROL PARAMETERS:

General ventilation with adequate face velocity to control worker exposure to airborne contaminants below PEL. Supplement with NIOSH approved organic vapor cartridge respirator. Insure 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. Insure 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. Inspect gloves on a routine basis for retention of properties. 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. . Face shield is also recommended if splashing is evident.

RESPIRATORY:

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

8.3 PERSONAL PROTECTIVE EQUIPMENT (PPE):





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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

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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 inhalation.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS: FOR INGREDIENTS

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

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

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



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ACUTE TOXICITY FOR PRODUCT:

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: Drying or cracking of skin during prolonged contact.

EYES: Will cause abrasive irritation.

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: No component is present at levels greater than or equal to 0.1% is identified as a carcinogen by NTP.

IARC: Silicon Carbide whiskers: Group 2A, probable. Silicon Carbide fibrous: Group 2B, possibly).

OSHA: No component is present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY: INFORMATION FOR INGREDIENTS

DISTILLATES (PETROLEUM) HYDROTREATED LIGHT (CAS # 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 (CAS #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 (CAS #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.**

12.5 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.**



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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; no reportable or EHS quantities.

SARA (311/312):

Acute health hazard.

SARA TITLE III (313):

This product contains the following chemicals subject to the reporting requirements of Section 313: NONE.

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 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

U.S. OSHA 29CFR 1910.1000 - 1500

REGULATION (EC) 1907/2006 – REACH (ANNEX X1V)

EC REGULATIONS 1272/2008 – CLP

EH40 / 2005 – WORKPLACE EXPOSURE LIMITS (WHERE APPLICABLE)

CONTROL OF SUBSTANCE HAZARDOUS TO HEALTH – COSHH

DANGEROUS SUBSTANCES AND EXPLOSIVE ATMOSPHERE REGULATIONS - DSEAR

SDS_PC2221 PC2241 PC2271 PC2284_Nu-Shine IIF7, F9, F10, F8_Rev12

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REGULATION (EC) – REACH ANNEX (XIV) ARTICLE 59(10) AUTHORIZATIONS AND / OR RESTRICTIONS ON USE:

Contains the following REACH (SVHC) Candidate Substances: NONE.

REGULATION (EC) 2015/863 – RoHS

Contains the following RoHS Substances: NONE

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

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
CLP:	Classification, Labeling and packaging
DOT:	Department of Transportation
EC:	Commission Regulation (European Union)
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
LTEL:	Long Term Exposure Limit
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
REACH:	Registration, Evaluation, Authorization and Restriction (European Union)
SARA:	Superfund Amendments and Reauthorization Act
STEL:	Short Term Exposure Limit
SVHC:	Substances of Very High Concern (European Union)
TDG:	Transportation of dangerous goods -- Canada
WEL:	Workplace Exposure Limit



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