Abrasive Products

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 10/18/2022 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Abrasive Products

Synonyms: AO, MX, MXD, Regular

1.2. Intended Use of the Product

Polishing various substrates i.e.: metals, wood, polycarbonates

1.3. Name, Address, and Telephone of the Responsible Party

Company

Micro-Surface Finishing Products, Inc.
1217 W 3rd St
PO Box 70
Wilton IA 52778
563.732.3240
www.micro-surface.com

1.4. Emergency Telephone Number

Emergency Number : 563.732.3240

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Not classified

2.2. Label Elements

GHS-US/CA Labeling

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

Supplemental Information : This product is defined as an "article" under 29CFR 1910.1200 (c), and is therefore exempt from classification and labeling regulation under the US OSHA Hazard Communication Standard and the Canadian Hazardous Product Regulations. This product is physiologically inert in its, current, massive form. However, user-generated dust and/or fumes may pose a physiological hazard if inhaled or ingested. The data presented in the SDS and product instructions is intended to guide the user in the safe handling and use of the product. See the product instructions for proper usage instructions and precautions. Read the product instructions for use before handling.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Adhesive	None Disclosed	(CAS-No.) None Disclosed	30-60	Not classified
Aluminum oxide (Al_2O_3)	Aluminum oxide / .alpha.-Alumina / Alumina / Aluminium oxide / Aluminium oxide (Al_2O_3) / .alpha.-Aluminum oxide / Dialuminum trioxide / Dialuminium trioxide / ALUMINA / Alundum	(CAS-No.) 1344-28-1	30-60	Not classified
Diamond	DIAMOND POWDER / diamond	(CAS-No.) 7782-40-3	30-60	Not classified
Silicon carbide	Silicon carbide (SiC) / Silicon carbide, fibrous / Silicon carbide whiskers / Silicon carbide, non-fibrous / SILICON CARBIDE / silicon carbide / Silicon carbide fibres (with diameter <3 µm, length >5 µm and aspect ratio ≥3:1) / Silicon carbide fibres	(CAS-No.) 409-21-2	30-60	Carc. 1, H350 STOT RE 1, H372

Styrene-butadiene copolymer	Benzene, ethenyl-, polymer with 1,3-butadiene / Butadiene-styrene copolymer / 1,3-Butadiene-styrene copolymer / Butadiene-styrene polymer / 1,3-Butadiene-styrene polymer / Butadiene-styrene resin / Butadiene-styrene rubber / Styrene-1,3-butadiene copolymer / STYRENE/BUTADIENE COPOLYMER / Styrene-butadiene polymer / Styrene/butadiene copolymers / Polymer of styrene and 1,3-butadiene / Styrene-butadiene rubber / 1,3 Butadiene/styrene copolymers / Styrene homopolymer and 1,3-butadiene homopolymer, block copolymer / Polymer of buta-1,3-diene/styrene / Polymer mainly composed of styrene/butadiene	(CAS-No.) 9003-55-8	10-30	Comb. Dust
Polyester/ Cotton fabric	None disclosed	(CAS-No.) None disclosed	1-5	Not classified
2-Hydroxy-4-n-octoxybenzophenone	Benzophenone, 2-hydroxy-4-(octyloxy)- / Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl- / Octabenzone / Benzophenone-12 / 2-Hydroxy-4-(octyloxy)benzophenone / 2-Hydroxy-4-n-octyloxybenzophenone / BENZOPHENONE-12 / Methanone,[2-hydroxy-4-(octyloxy)phenyl]phenyl- / 2-Hydroxy-4-(octyloxy) benzophenone / octabenzone	(CAS-No.) 1843-05-6	< 1	Not classified
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate	Ethyl acrylate, polymer with methacrylic acid / Methacrylic acid, polymer with ethyl acrylate / Polymer, ethyl acrylate and methacrylic acid / Ethyl acrylate-methacrylic acid copolymer / Acrylic acid, 2-methyl-, polymer with ethyl 2-propenoate / Methacrylic acid-ethyl acrylate polymer / Methacrylic acid-ethyl acrylate copolymer / Polymer of [2-methyl-2-propenoic acid] and [ethyl 2-propenoate]	(CAS-No.) 25212-88-8	< 1	Acute Tox. 4 (Inhalation:dust, mist), H332

Full text of H-statements: see section 16

* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Full text of H-statements: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: In the event of dust exposure: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Sanding and grinding dusts may be harmful if inhaled and irritating to the respiratory system.

Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Eye Contact: Eye contact with dust may cause mechanical irritation.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use. Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO_2), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Oxides of silicon, chromium and carbon.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Use explosion proof vacuum during cleanup, with appropriate filter. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Carbon/graphite dust is electrically conductive and dust accumulations on electrical equipment can cause short circuits resulting in electrical shock, fire or damage to equipment. Graphite dust may create slippery conditions. . Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. Do not dry clean dust covered objects and floors. Use water plus a cleaning agent for cleanup.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Polishing various substrates i.e.: metals, wood, polycarbonates

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Aluminum oxide (Al2O3) (1344-28-1)		
USA ACGIH	ACGIH OEL TWA	10 mg/m³
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Alberta	OEL TWA	10 mg/m³
New Brunswick	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut	OEL STEL	20 mg/m³
Nunavut	OEL TWA	10 mg/m³
Northwest Territories	OEL STEL	20 mg/m³
Northwest Territories	OEL TWA	10 mg/m³
Québec	VEMP (OEL TWA)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL	20 mg/m³
Saskatchewan	OEL TWA	10 mg/m³
Yukon	OEL STEL	20 mg/m³ (Al2O3)
Yukon	OEL TWA	30 mppcf (Al2O3) 10 mg/m³ (Al2O3)

Silicon carbide (409-21-2)		
USA ACGIH	ACGIH OEL TWA	10 mg/m³ (nonfibrous, inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 3 mg/m³ (nonfibrous, respirable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 0.1 fibers/cm³ (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.- respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1)
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen fibrous, including whiskers
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA	10 mg/m³ (nonfibrous-total particulate) 3 mg/m³ (nonfibrous-respirable particulate) 0.1 fibers/cm³ (fibrous, including whiskers)
British Columbia	OEL TWA	10 mg/m³ (nonfibrous-inhalable) 3 mg/m³ (nonfibrous-respirable) 0.1 fibers/cm³ (fibrous, including whiskers)
Manitoba	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.- respirable fibers)
New Brunswick	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Newfoundland & Labrador	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.- respirable fibers)
Nova Scotia	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter)

		3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
Nunavut	OEL STEL	20 mg/m³ (non-fibrous-inhalable fraction) 6 mg/m³ (non-fibrous-respirable fraction)
Nunavut	OEL TWA	10 mg/m³ (non-fibrous-inhalable fraction) 3 mg/m³ (non-fibrous-respirable fraction) 0.1 fibers/cm³ (fibrous, including whiskers-respirable fibres)
Northwest Territories	OEL STEL	20 mg/m³ (non-fibrous-inhalable fraction) 6 mg/m³ (non-fibrous-respirable fraction)
Northwest Territories	OEL TWA	10 mg/m³ (non-fibrous-inhalable fraction) 3 mg/m³ (non-fibrous-respirable fraction) 0.1 fibers/cm³ (fibrous, including whiskers-respirable fibres)
Ontario	OEL TWA	10 mg/m³ (non-fibrous, particulate matter containing no Asbestos and <1% Crystalline silica-inhalable fraction) 3 mg/m³ (non-fibrous, particulate matter containing no Asbestos and <1% Crystalline silica-respirable fraction) 0.1 fibers/cm³ (fibrous, including whiskers, fibres >5 µm in length and an aspect ratio >=3:1 as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination-respirable fraction)
Prince Edward Island	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
Québec	VEMP (OEL TWA)	10 mg/m³ (non fibrous, containing no Asbestos and <1% Crystalline silica-total dust) 3 mg/m³ (non fibrous, containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL	20 mg/m³ (nonfibrous, inhalable fraction) 6 mg/m³ (nonfibrous, respirable fraction)
Saskatchewan	OEL TWA	0.1 fibers/cm³ (including whiskers-fibrous, respirable fibres) 10 mg/m³ (nonfibrous, inhalable fraction) 3 mg/m³ (nonfibrous, respirable fraction)
Yukon	OEL STEL	20 mg/m³
Yukon	OEL TWA	30 mppcf 10 mg/m³

8.2. Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield during use.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Solid
Appearance	:	Nitrile rubber / Plastic
Odor	:	No odors that outgas from this product contain Hazardous Air Pollutants (HAPs)
Odor Threshold	:	No data available
pH	:	No data available
Evaporation Rate	:	No data available
Melting Point	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	No data available
Auto-ignition Temperature	:	No data available
Decomposition Temperature	:	No data available
Flammability	:	No data available
Lower Flammable Limit	:	No data available
Upper Flammable Limit	:	No data available
Vapor Pressure	:	No data available
Relative Vapor Density at 20°C	:	No data available
Relative Density	:	No data available
Specific Gravity	:	No data available
Solubility	:	Non-soluble in water.
Partition Coefficient: N-Octanol/Water	:	No data available
Viscosity	:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

Hazardous decomposition products: Oxides of carbon, chromium and silicon on combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Sanding and grinding dusts may be harmful if inhaled and irritating to the respiratory system.

Symptoms/Injuries After Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Symptoms/Injuries After Eye Contact: Eye contact with dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use,Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Aluminum oxide (Al2O3) (1344-28-1)	
LD50 Oral Rat	> 15900 mg/kg
Diamond (7782-40-3)	
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 5.2 mg/l (Exposure time: 241 min)
2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)	
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)	
LC50 Inhalation Rat	1.03 mg/l/4h
ATE US/CA (dust, mist)	1.50 mg/l/4h
Styrene-butadiene copolymer (9003-55-8)	
IARC Group	3
Silicon carbide (409-21-2)	
IARC Group	2A (respirable)
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Aluminum oxide (Al2O3) (1344-28-1)	
LC50 Fish 1	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
NOEC (Acute)	> 50 mg/l
Diamond (7782-40-3)	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

12.2. Persistence and Degradability

Abrasive Products	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Abrasive Products	
Bioaccumulative Potential	Not established.

2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)	
BCF Fish 1	89 – 190
Partition coefficient n-octanol/water (Log Pow)	> 6

12.4. Mobility in Soil

Abrasive Products	
Ecology - Soil	No data available.

12.5. Other Adverse Effects

Other Adverse Effects: None known.

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Treatment Methods: Can be landfilled or incinerated, when in compliance with local regulations.

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Incineration is the preferred method for disposal of waste product.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

14.4. In Accordance with TDG

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Styrene-butadiene copolymer (9003-55-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Aluminum oxide (Al2O3) (1344-28-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 % (fibrous forms)

Diamond (7782-40-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Silicon carbide (409-21-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. US State Regulations

Aluminum oxide (Al2O3) (1344-28-1)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Silicon carbide (409-21-2)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List

15.3. Canadian Regulations

Styrene-butadiene copolymer (9003-55-8)
Listed on the Canadian DSL (Domestic Substances List)

Aluminum oxide (Al2O3) (1344-28-1)
Listed on the Canadian DSL (Domestic Substances List)

Diamond (7782-40-3)
Listed on the Canadian DSL (Domestic Substances List)

Silicon carbide (409-21-2)
Listed on the Canadian DSL (Domestic Substances List)

2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)
Listed on the Canadian DSL (Domestic Substances List)

2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 10/18/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

H332	Harmful if inhaled
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)

Abrasive Products

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 10/18/2022 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Abrasive Products

Synonyms: AO, MX, MXD, Regular

1.2. Intended Use of the Product

Polishing various substrates i.e.: metals, wood, polycarbonates

1.3. Name, Address, and Telephone of the Responsible Party

Company

Micro-Surface Finishing Products, Inc.
1217 W 3rd St
PO Box 70
Wilton IA 52778
563.732.3240
www.micro-surface.com

1.4. Emergency Telephone Number

Emergency Number : 563.732.3240

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Not classified

2.2. Label Elements

GHS-US/CA Labeling

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

Supplemental Information : This product is defined as an "article" under 29CFR 1910.1200 (c), and is therefore exempt from classification and labeling regulation under the US OSHA Hazard Communication Standard and the Canadian Hazardous Product Regulations. This product is physiologically inert in its, current, massive form. However, user-generated dust and/or fumes may pose a physiological hazard if inhaled or ingested. The data presented in the SDS and product instructions is intended to guide the user in the safe handling and use of the product. See the product instructions for proper usage instructions and precautions. Read the product instructions for use before handling.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Adhesive	None Disclosed	(CAS-No.) None Disclosed	30-60	Not classified
Aluminum oxide (Al_2O_3)	Aluminum oxide / .alpha.-Alumina / Alumina / Aluminium oxide / Aluminium oxide (Al_2O_3) / .alpha.-Aluminum oxide / Dialuminum trioxide / Dialuminium trioxide / ALUMINA / Alundum	(CAS-No.) 1344-28-1	30-60	Not classified
Diamond	DIAMOND POWDER / diamond	(CAS-No.) 7782-40-3	30-60	Not classified
Silicon carbide	Silicon carbide (SiC) / Silicon carbide, fibrous / Silicon carbide whiskers / Silicon carbide, non-fibrous / SILICON CARBIDE / silicon carbide / Silicon carbide fibres (with diameter <3 µm, length >5 µm and aspect ratio ≥3:1) / Silicon carbide fibres	(CAS-No.) 409-21-2	30-60	Carc. 1, H350 STOT RE 1, H372

Styrene-butadiene copolymer	Benzene, ethenyl-, polymer with 1,3-butadiene / Butadiene-styrene copolymer / 1,3-Butadiene-styrene copolymer / Butadiene-styrene polymer / 1,3-Butadiene-styrene polymer / Butadiene-styrene resin / Butadiene-styrene rubber / Styrene-1,3-butadiene copolymer / STYRENE/BUTADIENE COPOLYMER / Styrene-butadiene polymer / Styrene/butadiene copolymers / Polymer of styrene and 1,3-butadiene / Styrene-butadiene rubber / 1,3 Butadiene/styrene copolymers / Styrene homopolymer and 1,3-butadiene homopolymer, block copolymer / Polymer of buta-1,3-diene/styrene / Polymer mainly composed of styrene/butadiene	(CAS-No.) 9003-55-8	10-30	Comb. Dust
Polyester/ Cotton fabric	None disclosed	(CAS-No.) None disclosed	1-5	Not classified
2-Hydroxy-4-n-octoxybenzophenone	Benzophenone, 2-hydroxy-4-(octyloxy)- / Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl- / Octabenzone / Benzophenone-12 / 2-Hydroxy-4-(octyloxy)benzophenone / 2-Hydroxy-4-n-octyloxybenzophenone / BENZOPHENONE-12 / Methanone,[2-hydroxy-4-(octyloxy)phenyl]phenyl- / 2-Hydroxy-4-(octyloxy) benzophenone / octabenzone	(CAS-No.) 1843-05-6	< 1	Not classified
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate	Ethyl acrylate, polymer with methacrylic acid / Methacrylic acid, polymer with ethyl acrylate / Polymer, ethyl acrylate and methacrylic acid / Ethyl acrylate-methacrylic acid copolymer / Acrylic acid, 2-methyl-, polymer with ethyl 2-propenoate / Methacrylic acid-ethyl acrylate polymer / Methacrylic acid-ethyl acrylate copolymer / Polymer of [2-methyl-2-propenoic acid] and [ethyl 2-propenoate]	(CAS-No.) 25212-88-8	< 1	Acute Tox. 4 (Inhalation:dust, mist), H332

Full text of H-statements: see section 16

* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Full text of H-statements: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: In the event of dust exposure: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Sanding and grinding dusts may be harmful if inhaled and irritating to the respiratory system.

Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Eye Contact: Eye contact with dust may cause mechanical irritation.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use. Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO_2), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Oxides of silicon, chromium and carbon.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Use explosion proof vacuum during cleanup, with appropriate filter. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Carbon/graphite dust is electrically conductive and dust accumulations on electrical equipment can cause short circuits resulting in electrical shock, fire or damage to equipment. Graphite dust may create slippery conditions. . Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. Do not dry clean dust covered objects and floors. Use water plus a cleaning agent for cleanup.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Polishing various substrates i.e.: metals, wood, polycarbonates

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Aluminum oxide (Al2O3) (1344-28-1)		
USA ACGIH	ACGIH OEL TWA	10 mg/m³
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Alberta	OEL TWA	10 mg/m³
New Brunswick	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut	OEL STEL	20 mg/m³
Nunavut	OEL TWA	10 mg/m³
Northwest Territories	OEL STEL	20 mg/m³
Northwest Territories	OEL TWA	10 mg/m³
Québec	VEMP (OEL TWA)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL	20 mg/m³
Saskatchewan	OEL TWA	10 mg/m³
Yukon	OEL STEL	20 mg/m³ (Al2O3)
Yukon	OEL TWA	30 mppcf (Al2O3) 10 mg/m³ (Al2O3)

Silicon carbide (409-21-2)		
USA ACGIH	ACGIH OEL TWA	10 mg/m³ (nonfibrous, inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 3 mg/m³ (nonfibrous, respirable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 0.1 fibers/cm³ (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.- respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1)
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen fibrous, including whiskers
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA	10 mg/m³ (nonfibrous-total particulate) 3 mg/m³ (nonfibrous-respirable particulate) 0.1 fibers/cm³ (fibrous, including whiskers)
British Columbia	OEL TWA	10 mg/m³ (nonfibrous-inhalable) 3 mg/m³ (nonfibrous-respirable) 0.1 fibers/cm³ (fibrous, including whiskers)
Manitoba	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.- respirable fibers)
New Brunswick	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Newfoundland & Labrador	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.- respirable fibers)
Nova Scotia	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter)

		3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
Nunavut	OEL STEL	20 mg/m³ (non-fibrous-inhalable fraction) 6 mg/m³ (non-fibrous-respirable fraction)
Nunavut	OEL TWA	10 mg/m³ (non-fibrous-inhalable fraction) 3 mg/m³ (non-fibrous-respirable fraction) 0.1 fibers/cm³ (fibrous, including whiskers-respirable fibres)
Northwest Territories	OEL STEL	20 mg/m³ (non-fibrous-inhalable fraction) 6 mg/m³ (non-fibrous-respirable fraction)
Northwest Territories	OEL TWA	10 mg/m³ (non-fibrous-inhalable fraction) 3 mg/m³ (non-fibrous-respirable fraction) 0.1 fibers/cm³ (fibrous, including whiskers-respirable fibres)
Ontario	OEL TWA	10 mg/m³ (non-fibrous, particulate matter containing no Asbestos and <1% Crystalline silica-inhalable fraction) 3 mg/m³ (non-fibrous, particulate matter containing no Asbestos and <1% Crystalline silica-respirable fraction) 0.1 fibers/cm³ (fibrous, including whiskers, fibres >5 µm in length and an aspect ratio >=3:1 as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination-respirable fraction)
Prince Edward Island	OEL TWA	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, inhalable particulate matter, particulate matter) 3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-nonfibrous, respirable particulate matter, particulate matter) 0.1 fibers/cm³ (respirable fibers, including whiskers, with length >5 µm, aspect ratio >=3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers)
Québec	VEMP (OEL TWA)	10 mg/m³ (non fibrous, containing no Asbestos and <1% Crystalline silica-total dust) 3 mg/m³ (non fibrous, containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL	20 mg/m³ (nonfibrous, inhalable fraction) 6 mg/m³ (nonfibrous, respirable fraction)
Saskatchewan	OEL TWA	0.1 fibers/cm³ (including whiskers-fibrous, respirable fibres) 10 mg/m³ (nonfibrous, inhalable fraction) 3 mg/m³ (nonfibrous, respirable fraction)
Yukon	OEL STEL	20 mg/m³
Yukon	OEL TWA	30 mppcf 10 mg/m³

8.2. Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield during use.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Solid
Appearance	:	Nitrile rubber / Plastic
Odor	:	No odors that outgas from this product contain Hazardous Air Pollutants (HAPs)
Odor Threshold	:	No data available
pH	:	No data available
Evaporation Rate	:	No data available
Melting Point	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	No data available
Auto-ignition Temperature	:	No data available
Decomposition Temperature	:	No data available
Flammability	:	No data available
Lower Flammable Limit	:	No data available
Upper Flammable Limit	:	No data available
Vapor Pressure	:	No data available
Relative Vapor Density at 20°C	:	No data available
Relative Density	:	No data available
Specific Gravity	:	No data available
Solubility	:	Non-soluble in water.
Partition Coefficient: N-Octanol/Water	:	No data available
Viscosity	:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

Hazardous decomposition products: Oxides of carbon, chromium and silicon on combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Sanding and grinding dusts may be harmful if inhaled and irritating to the respiratory system.

Symptoms/Injuries After Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Symptoms/Injuries After Eye Contact: Eye contact with dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use,Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Aluminum oxide (Al2O3) (1344-28-1)	
LD50 Oral Rat	> 15900 mg/kg
Diamond (7782-40-3)	
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 5.2 mg/l (Exposure time: 241 min)
2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)	
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)	
LC50 Inhalation Rat	1.03 mg/l/4h
ATE US/CA (dust, mist)	1.50 mg/l/4h
Styrene-butadiene copolymer (9003-55-8)	
IARC Group	3
Silicon carbide (409-21-2)	
IARC Group	2A (respirable)
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Aluminum oxide (Al2O3) (1344-28-1)	
LC50 Fish 1	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
NOEC (Acute)	> 50 mg/l
Diamond (7782-40-3)	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

12.2. Persistence and Degradability

Abrasive Products	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Abrasive Products	
Bioaccumulative Potential	Not established.

2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)	
BCF Fish 1	89 – 190
Partition coefficient n-octanol/water (Log Pow)	> 6

12.4. Mobility in Soil

Abrasive Products	
Ecology - Soil	No data available.

12.5. Other Adverse Effects

Other Adverse Effects: None known.

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Treatment Methods: Can be landfilled or incinerated, when in compliance with local regulations.

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Incineration is the preferred method for disposal of waste product.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

14.4. In Accordance with TDG

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Styrene-butadiene copolymer (9003-55-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Aluminum oxide (Al2O3) (1344-28-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 % (fibrous forms)

Diamond (7782-40-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Silicon carbide (409-21-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. US State Regulations

Aluminum oxide (Al2O3) (1344-28-1)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Silicon carbide (409-21-2)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List

15.3. Canadian Regulations

Styrene-butadiene copolymer (9003-55-8)
Listed on the Canadian DSL (Domestic Substances List)

Aluminum oxide (Al2O3) (1344-28-1)
Listed on the Canadian DSL (Domestic Substances List)

Diamond (7782-40-3)
Listed on the Canadian DSL (Domestic Substances List)

Silicon carbide (409-21-2)
Listed on the Canadian DSL (Domestic Substances List)

2-Hydroxy-4-n-octoxybenzophenone (1843-05-6)
Listed on the Canadian DSL (Domestic Substances List)

2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 10/18/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

H332	Harmful if inhaled
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)

Nuvite CHEMICAL COMPOUNDS
A DIVISION OF UNIVERSAL PHOTONICS INC.

85 Jetson Lane, Central Islip, New York 11722
516.935.4000 Fax 516.935.4039
WWW.NUVITECHEMICAL.COM
WWW.UNIVERSALPHOTONICS.COM

Safety Data Sheet: NU-SHINE II (S, A, C, SL)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 APPLICABLE PART #: **PC2202025LB, PC2202050LB, PC220210LB, PC22021LB, PC220250LB, PC2202S, PC2204025LB, PC2204050LB, PC220410LB, PC22041LB, PC2204050LB, PC2204S, PC2206025LB, PC2206050LB, PC220610LB, PC22061LB, PC220650LB, PC2206S, PC22825GL**

1.2 IDENTITY: **NU-SHINE-IIS, NU-SHINE-IIA, NU-SHINE-IIC, NU-SHINE-IISL**

1.3 INTENDED USE: **POLISHING COMPOUNDS FOR METAL**

1.4 SUPPLIER: **Universal Photonics, Inc.**
85 Jetson Lane
Central Islip, NY 11722

FOR INFORMATION CALL
CUSTOMER SERVICE: **(516) 935-4000**
DATE PREPARED: **January 29, 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.

85 Jetson Lane, Central Islip, New York 11722
516.935.4000 Fax 516.935.4039
WWW.NUVITECHEMICAL.COM
WWW.UNIVERSALPHOTONICS.COM

Safety Data Sheet: NU-SHINE II (S, A, C, SL)

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 – 25
TRADE SECRET INFORMATION*	N/A	PROPRIETARY	55 - 70

NOTE: ***Non-regulated components are proprietary, confidential, and trade secret**.
****Note: Alumina dust is minimized through the viscous embodiment of the product.**

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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, CO_2.**
UNSUITABLE EXTINGUISHING MEDIA:	**None known.**

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

8.2 EXPOSURE CONTROLS:

CONTROL PARAMETERS: **General ventilation with sufficient 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.**

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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):

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	**Cream / paste.**
COLOR:	**Off white.**
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.**

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DECOMPOSITION TEMPERATURE:	**Not applicable.**
FLAMMABILITY:	**Not applicable.**
SPECIFIC GRAVITY:	**1.12- 1.20 @25 °C.**
BOILING POINT:	**100 ºC / 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.**

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:	**None.**
10.2 CHEMICAL STABILITY:	**Stable.**
10.3 HAZARDOUS REACTIONS:	**None known.**
HAZARDOUS POLYMERIZATION:	**None.**
10.4 CONDITIONS TO AVOID:	**None.**
10.5 INCOMPATIBLE MATERIALS:	**Strong acids and oxidizing agents.**
10.6 HAZARDOUS DECOMPOSITION OF PRODUCTS:	**None.**

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SECTION 11: TOXICOLOGICAL INFORMATION

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

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.**

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: **Dryness or cracking of skin during prolonged contact.**

EYES: **Will cause abrasive irritation.**

RESPIRATORY: **Will irritate nose and throat when breathing 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.**

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

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

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.**

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.**

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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.**

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

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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SAFETY DATA SHEET

Tap Magic Aluminum

TAP MAGIC
A DIVISION OF THE STECO CORPORATION

Section 1. Identification

GHS product identifier : Tap Magic Aluminum

Product code : 20004A, 20016A, 20128A, 20640A, 23840A, 27040A

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Cutting Fluid for Non-Ferrous Metal.

Supplier's details : The Steco Corporation
2330 Cantrell Road
Little Rock
72202, AR, US
Phone: 501-375-5644
Toll free: 800-643-8026
Fax: 501-374-4278
Email: steco@tapmagic.com
Website: tapmagic.com

Emergency telephone number (with hours of operation) : Chemtel, Inc. 800-255-3924, +1 (813) 248-0585
24 hours
Contact Email: Billing@ehs.com
Registration date: 2020-09-01
Registration number: MIS0003987

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN SENSITIZATION - Category 1
ASPIRATION HAZARD - Category 1
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H304 - May be fatal if swallowed and enters airways.
H317 - May cause an allergic skin reaction.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Section 2. Hazards identification

Precautionary statements

Prevention : P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.

Response : P391 - Collect spillage.
P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
P363 - Wash contaminated clothing before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated light	≥50 - ≤75	64742-47-8
Aliphatic Organic Ester	≥25 - ≤50	111-82-0
Cinnamaldehyde	≥0.3 - ≤1	104-55-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : Adverse symptoms may include the following:
nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Section 5. Fire-fighting measures

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light	**ACGIH TLV (United States, 3/2020). Absorbed through skin.** TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.
Aliphatic Organic Ester	None.
Cinnamaldehyde	None.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid. [Clear liquid.]

Color : None.

Odor : Pleasant.

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point, initial boiling point, and boiling range : Not available.

Flash point : Closed cup: >93°C (>199.4°F)

Evaporation rate : Not available.

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Not available.

Vapor pressure : Not applicable.

Relative vapor density : Not available.

Relative density : 0.83

Solubility : Very slightly soluble in the following materials: cold water.
Insoluble in the following materials: hot water.

Solubility in water : Very slightly soluble in cold water.
Insoluble in hot water.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 12 mm^2/s (12 cSt)

Flow time (ISO 2431) : Not available.

VOC content : 70 % (w/w)

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Cinnamaldehyde	LD50 Dermal LD50 Oral	Rabbit Rat	1260 mg/kg 2220 mg/kg	- -

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : May be fatal if swallowed and enters airways.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : Adverse symptoms may include the following:
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Cinnamaldehyde	2220	1260	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated light	Acute LC50 2200 µg/L Fresh water	Fish - Lepomis macrochirus	4 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Aliphatic Organic Ester	5.41	-	high
Cinnamaldehyde	1.83	8	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light)
Transport hazard class(es)	9 	9 	9 
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.

AERG : 171

Additional information

DOT Classification : Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.

Section 14. Transport information

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: Cinnamaldehyde
TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : SKIN SENSITIZATION - Category 1
ASPIRATION HAZARD - Category 1

Composition/information on ingredients

Name	%	Classification
Distillates (petroleum), hydrotreated light	≥50 - ≤75	FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 1
Cinnamaldehyde	≥0.3 - <1	ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

State regulations

Massachusetts : None of the components are listed.

Section 15. Regulatory information

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States (TSCA 8b) : All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Procedure used to derive the classification

Section 16. Other information

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

History

Date of issue/Date of revision : 08/15/2021

Date of previous issue : Not applicable

Version : 1

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

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