



SAFETY DATA SHEET

According to 29CFR 1910.1200

230 – Ceramic Coating

Section 1: Identification

GHS Product Name: 230 – Ceramic Coating

Product Code: 230

Other means of identification: Not applicable (N/A)

Chemical Name/Synonyms: Not applicable (N/A)

Product Type: Mild Acid Cleaner

Optimal Solutions Products

145 City View Cir

Pickens, South Carolina 29672

864-557-3767

www.OSproduct.com

Emergency number: Chemtrec 1-800-424-9300

Section 2: Hazard(s) Identification



Hazard Classification:

FLAMMABLE LIQUID: Category 4

EYE DAMAGE: Category 2

Signal Word(s):

Danger

Hazard Statements:

H225: Highly Flammable liquid and vapor

H316: Causes mild skin irritation

H319: Causes serious eye irritation

H303: May be harmful if swallowed

H336: May cause drowsiness or dizziness.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use

P210: Keep away from heat, sparks, open flames, and other ignition sources. No Smoking.

P233: Keep container tightly closed.

P234: Keep in original container

P235: Keep Cool.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting, and equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing mist/ vapor spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product

P273: Avoid Release to the Environment

P280: Wear protective gloves/eye protection/face protection

Response Statements:

P370: IN CASE OF FIRE

P373: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.



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Section 2: Hazard(s) Identification Continued

P301: IF SWALLOWED
P330: Rinse mouth.
P331: Do NOT induce vomiting.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P303: IF ON SKIN (or hair)
P361: Remove/Take off immediately all contaminated clothing.
P353: Rinse skin with water/shower.

P332: IF SKIN irritation occurs
P313: Get medical advice/attention

P304: IF INHALED
P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342: IF experiencing respiratory symptoms
P312: Call a POISON CENTER or doctor/physician if you feel unwell.

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

P337: IF eye irritation persists
P313: Get medical advice/attention

P363: Wash Contaminated Clothing Before Reuse
P390: Absorb Spillage to Prevent Material Damage
P391: Collect Spillage
P321: Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

STORAGE STATEMENTS:

P401: Store in a secure manner. Keep container closed.
P403+235: Store in a well-ventilated place. Keep cool.

DISPOSAL STATEMENTS:

P501: Dispose of Contents/Container in Accordance with Local/State/Federal/International Regulations

SUPPLEMENTAL LABEL ELEMENTS:

Avoid contact with eyes. May cause irritation to the eyes. In case of contact with eyes, rinse immediately with plenty of water. If irritation persists, get medical attention.

CARCINOGENICITY:

Not listed by OSHA, IARC, OR NTP

OSHA Regulatory Status:

This material is considered flammable by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition/ Information on Ingredients

Substance / Mixture: Mixture

Chemical Name	Synonym	CAS#	Wt. %
Ethylene Glycol Mono Butyl Ether		111-76-2	6.0
Acetic Acid		64-19-7	< 5.0
Isopropanol		67-63-0	2.3

Synonyms: N/A

Special Notes: N/A

Disclosure Statement:

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 as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.



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Section 4: First-Aid Measures

After skin contact:

Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation or burn occurs get medical attention.

After eye contact:

Immediately flush eyes with plenty of water. If possible, remove contact lenses. Rinse for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

After inhalation:

Remove from exposure and move to fresh air immediately and keep in a position comfortable for breathing. Give artificial respiration if necessary. Obtain medical attention if necessary.

After swallowing:

DO NOT INDUCE VOMITING. If person is conscious, wash out mouth with water. Never give anything to an unconscious person. Consult a physician or medical facility with regards to inducing vomiting.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents:

Commercial extinguishers as CO₂, foam, dry chemical, and water fog.

Special protective equipment for firefighters:

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

Specific hazards arising from the chemical:

If in a fire or if heated, a pressure increase will occur, and the container may burst

Hazardous thermal decomposition products:

None known

Flammable Class:

Flammable Liquids, Category 4

Other Information:

Vapors are heavier than air and may travel and be ignited at distant locations.

Section 6: Accidental Release Measures

Personal precautions:

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 material. Put on appropriate personal protective equipment. Avoid contact with skin, eyes, and clothing.

Environmental protection:

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).

Measures for cleaning/collecting:

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 license waste disposal contractor.

Large spill –

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Waste Disposal Method:

Check federal, state, and local codes.

Section 7: Handling and Storage

Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety precautions. Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in original container. Do not reuse container. Use appropriate personal protective equipment (see Section 8).

Conditions for safe storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight. Store in segregated and approved area. Keep container closed and store at moderate temperature in a well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.



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Section 8: Exposure Controls/Personal Protection



Exposure Guidelines

<u>Ingredient name</u>	<u>CAS #</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>California</u>
Ethylene Glycol Mono Butyl Ether	111-76-2	TLV (20ppm) (8-hour)	PEL 30ppm (TWA 8-hour)	PEL 30ppm (TWA 8-hour)
Acetic Acid	64-19-7	TLV (10ppm) (8-hour)	PEL 10ppm (TWA 8-hour)	PEL 10ppm (TWA 8-hour)
Isopropanol	67-63-0	TLV 200ppm (8-hour)	PEL 200ppm (TWA 8-hour)	PEL 200ppm (TWA 8-hour)

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local ventilation to keep airborne levels of vapor or mist to acceptable levels.

Personal Protection Equipment

- Respiratory:** If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or airfed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. NIOSH approved respirator if TLV is exceeded.
- Hands:** Chemical-resistant protective gloves should be always worn when handling chemical products
- Eyes and Face:** Wear approved safety glasses or chemical splash goggles. Use a face shield when appropriate.
Recommended: splash goggles
- Skin:** 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.
- Work Hygiene Practices:** Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest.
- Other use Precautions:** Wear appropriate protective clothing to prevent skin exposure.

Personal protective equipment
(Pictograms)



Section 9: Physical and Chemical Properties

Form:	Green Liquid	Upper flammability or explosive limits:	N/A
Odor:	Pungent	Lower flammability or explosive limits:	N/A
Odor Threshold:	N/A	Vapor pressure:	N/A
pH:	Approx 5	Vapor density:	N/A
Relative Density:	0.98	Partition coefficient: n-octanol/water:	N/A
Freeze Point:	N/A	Auto Ignition Temp:	N/A
Boiling point:	N/A	Decomposition temperature:	N/A
Flash point:	110° F	Viscosity:	N/A
Evaporation rate:	Slower than water	VOC (% wt.):	N/A
Flammability:	N/A	Percent Volatile:	N/A
Solubility:	Complete		



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Section 10: Stability and Reactivity

Reactivity:	Stable at normal temperatures and pressures.
Chemical stability:	Stable at normal temperatures and pressures.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Heat, sparks, open flames, other ignition sources, and oxidizing conditions.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Storage:	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. 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.

Section 11: Toxicological Information

Information on the likely routes of exposure:	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects:	
Eye contact:	May cause severe irritation or burns to eyes.
Inhalation:	May cause severe irritation or burns to respiratory tract.
Skin contact:	May cause severe irritation or burns to skin.
Ingestion:	May cause severe gastrointestinal irritation and diarrhea. May cause severe irritation or burns to throat.
Potential chronic health effects:	Not available.
General:	No known significant effects or critical hazards.
Target Organ Effect:	No known significant effects or critical hazards.
Chronic Effects:	No known significant effects or critical hazards.
Medical Conditions Aggravated by Exposure:	No known significant effects or critical hazards.
Germ Cell Mutagenicity:	No known significant effects or critical hazards.
Carcinogenicity:	This product is not listed as a carcinogen (known or potential)
Reproductive Toxicity:	No known significant effects or critical hazards.
STOST single exposure:	No known significant effects or critical hazards.
STOST repeated exposure:	No known significant effects or critical hazards.
Acute Toxicity:	No known significant effects or critical hazards.
Acute Toxicity Values:	No known significant effects or critical hazards.
Other:	No known significant effects or critical hazards.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity:	Not available.
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Section 13: Disposal Considerations (non-mandatory)

WASTE DISPOSAL METHOD:	Dispose of material in accordance with all federal, state, and local regulations
NEUTRALIZING CHEMICALS:	Dispose of in accordance with all federal, state, and local regulations
GENERAL DISPOSAL CONSIDERATIONS:	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.



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Section 14: Transport Information (non-mandatory)

PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (Isopropanol Solution)
CLEANING COMPOUND, LIQUID
UN/NA NUMBER: UN1993
HAZARD CLASS: 3
PACKING GROUP: II
EMERGENCY RESPONSE GUIDEBOOK: 128
PLACARD/LABELS REQUIRED: Flammable 1993

Section 15: Regulatory Information (non-mandatory)

RQ – CERCLA (Comprehensive Environmental Response and Liability Act)

INGREDIENTS	CAS Number	Pounds
Acetic Acid	64-19-7	5000

SARA 313 (Comprehensive Environmental Response and Liability Act)

INGREDIENTS	CAS Number	Wt %
Ethylene Glycol Mono Butyl Ether	111-76-2	6.0
Isopropanol	67-63-0	2.3

OSHA HAZARDOUS CHEMICAL:

N/A

SARA Section 302/304:

No products were found.

SARA Section 311/312 Hazards:

Not applicable.

Hazardous Air Pollutants:

None

National Toxicology Program (NTP):

N/A

Toxic Substances Control Act: (TSCA)

All components of this product comply with the inventory requirements administered by the governing agency.

State Regulations:

Massachusetts	None of the components are listed.
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	None of the components are listed.

Canada:

Canadian Lists:

Canada NPRI

None of the components are listed.

Canada Inventory.

All components are listed or exempted.

Canadian PCP/DIN Number:

N/A

International Regulations:

International lists.

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

Section 16: Other Information

HMIS: Health = 1; Flammability = 3; Reactivity = 0; Personal Protection Equipment = D

Other Information: Do not add anything to concentrated product. KEEP FROM FREEZING.

The information herein has been from sources believed to be accurate, reliable and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and do not make any warranties nor assume any liability from its use or misuse.

SDS date of preparation/update: 01/01/2025