



Section 1. Product and Company Identification

Product Identifier C31 - Lucid Ceramic Headlight Coating

Product Use Description: Thin clear liquid with solvent and amine odors for use as a clear coating on automotive headlight lenses.

Manufacturer or suppliers' details

P & S Sales, Inc
20943 Cabot Blvd.
Hayward CA 94545

Emergency Number: 800-255-3924
Customer Service: 510-732-2628
Business Fax: 510-732-2632

Section 2. Hazards Identification

GHS Classification

Flammable Liquids : Category 3
Acute toxicity (Inhalation) : Category 4
Reproductive Toxicity : Category 2
Skin Corrosion/Irritation : Category 2
Aspiration Hazard : Category 1
Eye Irritation : Category 2A

GHS Label Elements

Hazard Pictograms



Hazard Word

Danger

Hazard Statements

Flammable liquid and vapour
Harmful if swallowed
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child

Precautionary Statements

P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233: Keep container tightly closed
P240: Ground/bond container and receiving equipment
P241: Use explosion-proof electrical/ventilating/light/.../equipment
P242: Use only non-sparking tools
P243: Take precautionary measures against static discharge



P264: Wash skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+312: Response:

P303+361+353: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P308+313: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse
P330: skin with water/shower
P331: IF exposed or concerned: Get medical advice/attention
P370+378: Rinse mouth
P403+233: Do NOT induce vomiting
P405: In case of fire: Use sand, carbon dioxide or powder for extinction

Storage

Store in a well ventilated place. Keep container tightly closed
Store locked up

3. Composition Information on Ingredients

CAS Number	Wt %	Component Name
475645-84-2	40-55%	Cyclosilazanes, di-Me, Meehydrogen, polymers with di-Me, Meehydrogen silazanes
64742-47-8	20-40 %	distillates (petroleum) hydrotreated, light
556-67-2	1-3%	octamethylcyclotetrasiloxane
541-02-6	3-12 %	decamethylcyclopentasiloxane
919-30-2	1-3%	3-aminopropyltriethylsilane

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

4. First Aid Measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Provide fresh air.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

5. Fire Fighting Measures

FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)

Estimated values: Lower Flammable Limit 1.9% Upper Flammable Limit 12.6%



EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

Use dry chemical, foam or carbon dioxide to extinguish the fire. "Water may be ineffective", but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use

supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7. Handling and Storage

7.1 Precautions for safe handling Recommendations

Measures to prevent fire as well as aerosol and dust generation



Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Warning

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

8. Exposure Controls and Personal Protection

475645-84-2	Cyclosilazanes, di-Me, Mehydrogen, polymers with di-Me, Mehydrogen silazanes	None Listed
64742-47-8	distillates (petroleum) hydrotreated, light	None Listed
556-67-2	octamethylcyclotetrasiloxane	10 ppm DCC OEL TWA
541-02-6	decamethylcyclopentasiloxane	None Listed
919-30-2	3-aminopropyltriethylsilane	None Listed

VENTILATION

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

RESPIRATORY PROTECTION

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

PROTECTIVE GLOVES

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

WORK PRACTICES / ENGINEERING CONTROLS

To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with (THE) National Fire Protection Association PUBLICATIONS.

9. Physical and Chemical Properties

Flash Point 58°C (136°F) TCC

Upper Flamability Limit 0.6 vol%

Auto Ignition 503°F (262°C)

Lower Flamability Limit 4.9 vol%

Physical State Liquid

Color Clear

Vapor Press 132 Pa at 25°C



pH N/A	Specific Gravity .97	Viscosity Thin
Vapor Density (Air=1) Not determined	Melting Point °F N/A	Odor Amine Solvent
Water Solubility Not Determined	VOC Content Not Listed	

10. Stability and Reactivity

Stability Stable

Hazardous Polymerization Not Expected to Occur

Conditions to Avoid

Keep away from extreme heat, Strong Acids, Alkalies and Oxidizers such as Chlorine, other Halogens, Hydrogen Peroxide and Oxygen

Hazardous Decomposition Products No substances are readily identifiable from composition but no degradation data is available.

11. Toxicological Information

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).
Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed.

Acute toxicity estimate (ATE)

oral 1,505 mg/kg

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Suspected of damaging fertility.

Shall not be classified as carcinogenic.

Shall not be classified as germ cell mutagenic.

Carcinogenicity

• National Toxicology Program (United States): none of the ingredients are listed

• IARC Monographs: none of the ingredients are listed

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Maybe fatal if swallowed and enters airways.

12. Ecological Information

Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogensilazanes

LC50 57/1 mg/l zebra fish 96 hr

decamethylcyclotetrasiloxane:

LC50 .016 mg/l fish 96 hr

3-aminopropyltriethoxysilane

LC50 .029 mg/l fish 96 hr

octamethylcyclotetrasiloxane

LC50 .066 mg/l fish 96 hr

13. Disposal Considerations



Options for disposal of this product may depend on the conditions under which it was used. To determine the proper method of disposal, refer to RCRA (40 CFR 261), as well as federal EPA and state and local regulations.

Do not empty into drains. Avoid release to the environment. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transportation Information

Domestic Transportation, not by air:

Limited quantity exemption - Not regulated - 49 CFR 173.150(f), 172.322(d)(1)(i)

Transported by marine vessel: as supplied

Limited quantity exemption - Not regulated - 49 CFR 173.150(f), 172.322(d)(1)(i)

Transportation by Air IATA: as supplied - Not Regulated

Limited Quantity exception: 49 CFR 173.150(b)(3), 173.27 table 3 - Combination packaging under 2.5 Liter or .65 gallon per inner container and less than 10 liters per box

Not as supplied - Packaging greater than 2.5 Liter or .65 Gallon per inner container or more than 10 liters per box

UN1993, Flammable Liquid n.o.s. (Cyclosilazanes, di-Me, Meehydrogen, polymers with di-Me, Me hydroen silazanes). 3 + Marine pollutant. III

15. Regulatory Information

OSHA Hazards : Combustible Liquid, Moderate skin Irritant, Chronic Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know - none of the ingredients are listed

CERCLA Reportable Quantity - This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : No ingredients listed

16. Other Information

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The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other



necessary information is included on the container.

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH American Conference of Government Industrial Hygienists

LD50 Lethal Dose 50%

AICS Australia, Inventory of Chemical Substances

LOAEL Lowest Observed Adverse Effect Level

DSL Canada, Domestic Substances List

NFPA National Fire Protection Agency

NDSL Canada, Non-Domestic Substances List

NIOSH National Institute for Occupational Safety & Health

CNS Central Nervous System

NTP National Toxicology Program

CAS Chemical Abstract Service

NZIoC New Zealand Inventory of Chemicals

EC50 Effective Concentration

NOAEL No Observable Adverse Effect Level

EC50 Effective Concentration 50%

NOEC No Observed Effect Concentration

EGEST EOSCA Generic Exposure Scenario Tool

OSHA Occupational Safety & Health Administration

EOSCA European Oilfield Specialty Chemicals Association

PEL Permissible Exposure Limit

EINECS European Inventory of Existing Chemical Substances

PICCS Philippines Inventory of Commercial Chemical Substances

MAK Germany Maximum Concentration Values

PRNT Presumed Not Toxic

GHS Globally Harmonized System

RCRA Resource Conservation Recovery Act

>= Greater Than or Equal To

STEL Short-term Exposure Limit

IC50 Inhibition Concentration 50%

SARA Superfund Amendments and Reauthorization Act.

IARC International Agency for Research on Cancer

TLV Threshold Limit Value

IECSC Inventory of Existing Chemical Substances in China

TWA Time Weighted Average

ENCS Japan, Inventory of Existing and New Chemical Substances

TSCA Toxic Substance Control Act

KECI Korea, Existing Chemical Inventory

UVCB Unknown or Variable Composition, Complex Reaction Products, and Biological Materials

<= Less Than or Equal To

WHMIS Workplace Hazardous Materials Information System

LC50 Lethal Concentration 50%