SURFACE SEAL #2126/2127

Solvent-Base 2 Part Epoxy Coating

Features:

- Premium epoxy coating
- Waterproof, highly resistant to heavy traffic, acids, caustics and fuels
- Provides a high gloss appearance
- Highly resistant to heavy traffic and chemicals
- Solvent-borne formula
- Can be applied to previously painted surfaces

Description:

SURFACE SEAL is a premium, 2-component catalyzed, polyamide epoxy coating with exceptionally high gloss, hardness and overall performance. Designed to protect and beautify interior and exterior masonry, metal and fiberglass, the application possibilities are endless. It produces a heavy duty, high gloss film that is highly resistant to scrubbing, scuffing, and various industrial chemicals including strong acids. Not only does it provide an excellent visual appearance, it is outstanding for use where wearing, abrasion, algae and mildew are a problem. This high solids formulation is easy to apply and maintain making it ideal for residential, commercial and institutional applications. Coating is not UV resistant and will get dull when used outside. Coating thickness is 3-4 mils when wet and 1.5-2 after drying. Can be applied to previously painted surfaces.

Applications:

- Concrete
- Cement Block
- Storage Tanks
- Drainwells
- Drywall
- Fiberglass
- Metal
- Brick
- Pumps
- Plaster
- Wood
- Steel Pipes
- Hardboard
- Concrete Floors
- Automotive Undercoating

Product Characteristics:

	Part A Gray	**Part B Gray**	**Part A Black**	**Part B Black**
Form:	Liquid	Liquid	Liquid	Liquid
Color:	Light tint base	Clear	Black	Clear
Odor:	Pungent	Pungent	Pungent	Pungent
Boiling Point/Range:	138°C (280°F)	>114°C (>237°F)	>138°C (>280°F)	>114°C (>237°F)
Solids Content:	67.7%	47.2%	67.7%	47.2%
Evaporation Rate:	Slower than ether	Slower than ether	Slower than ether	Slower than ether
Solubility/Miscibility (water):	Not miscible or difficult to mix	Not miscible or difficult to mix	Not miscible or difficult to mix	Not miscible or difficult to mix
Organic Solvents:	32.3%	52.8%	44.5%	52.8%
Flash Point:	34°C (93°F)	29°C (84°F)	34°C (93°F)	29°C (84°F)
Vapor Density:	Heavier than air	Not determined	Not determined	Heavier than air
Density @20°C (68°F):	1.634 g/cm³ (13.636 lbs/gal)	1.128 g/cm³ (9.413 lbs/gal)	1.35 g/cm³ (11.266 lbs/gal)	1.128 g/cm³ (9.413 lbs/gal)
Auto-Ignition Temp:	Product is not self-igniting	Product is not self-igniting	Product is not self-igniting	Product is not self-igniting.
Ignition Temperature:	500°C (932°F)	460°C (860°F)	500°C (932°F)	460°C (860°F)
VOC Content:	17.0% <340 g/l when blended with Part B	22.5% <340 g/l when blended with Part A	18.7% <340 g/l when blended with Part B	22.5% <340 g/l when blended with Part A
Storage:	Store locked up. Store in a well-ventilated place. Keep cool.			
Transport Information:				
Proper Shipping Name:	Paint	Paint	Paint	Paint
UN Number:	UN1263	UN1263	UN1263	UN1263
Class:	3-Flammable liquids	3-Flammable liquids	3-Flammable liquids	3-Flammable liquids
Packing Group:	III	III	III	III

SURFACE SEAL CONTINUED:

Solvent-Base 2 Part Epoxy Coating

Directions:

SURFACE PREPARATION: Proper surface preparation and application is critical in obtaining optimum performance of this product. All surfaces must be clean, dry, and free from dirt, mildew, chalk, algae, tanning lotion, rust, efflorescence, laitance, loose paint and other foreign matter. All spalling, powdery, or unsound masonry and any cracks, holes, or other imperfections must be repaired with a proper material suitable for pool use. All rust must be removed by mechanically abrading or sand blasting.

Bare Masonry: New pools should age at least 60 days and repaired surfaces should age at least 30 days before starting surface preparation. After aging, clean the surface with a cleaner/degreaser to remove any contaminates. Rinse completely and allow to dry. Then etch surface with dilute muriatic acid to promote coating penetration and adhesion. Rinse with clean water until all residue is gone. Repeat as necessary until the masonry has the roughness of fine sandpaper. Any loose aggregate must be rinsed to a clean, sound surface. Allow to dry completely before painting, usually 2-3 days under good conditions with moderate ventilation.

Bare Metal & Fiberglass: Make sure the surface is clean as stated above. Glossy metal or fiberglass should be lightly scuff sanded and cleaned to promote adhesion. Apply this product directly to the surface; no primer is necessary.

Previously Painted Surfaces: If the previous coating is sound, clean using a cleaner/degreaser. Rinse well. Repeat as needed until the surface is completely clean including the removal of all chalk and tanning oils. A power washer may aid in the cleaning process. Any bare spots or damage should be repaired then follow bare surface directions above. Glossy surfaces must be scuff sanded and cleaned to promote adhesion. Allow to dry completely before painting, usually 2-3 days under good conditions with moderate ventilation. Coatings in poor condition must be removed to a sound substrate then follow the appropriate bare surface directions above.

MIXING AND APPLICATION:

1. Mix and apply when rain is not expected for 3-5 days, temperature is 50-90°F and relative humidity is less than 85%.
2. Pour all of Part B (909-00) into pigmented Part A (909-XX) and mix thoroughly with a drill mounted mixing blade. Mix until a uniform color is obtained (generally 3-5 minutes). Avoid air entrapment. Let sit for
30 minutes after mixing for induction.
3. Pot life after mixing is 8 hours. Do not use beyond this timeframe even if product appears normal as this may lead to coating failure.
4. Apply without thinning by brush, roller, or spray at 400-500 square feet per gallon. Square foot averages may vary depending on surface texture and porosity. Do not paint in direct sunlight but follow the shade.
5. Work the coating into pores to produce a continuous, uninterrupted film. Apply in multiple coats at the recommended spreading rate. For best results, 2 coats are suggested for all applications and a minimum of 2 coats are required on bare masonry in order to ensure sufficient film thickness and filling of all voids.
6. Allow unused material to harden in the can and then discard in accordance with local, state, and federal regulations.

Directions (Continued):

DRYING: This product dries for recoating in 12-18 hours under good conditions. If over 24 hours lapses between coats, lightly scuff sand and re-clean the surface before applying the next coat. Allow the paint to cure for at least 7 days before use. Cool temperatures, high humidity, heavy film thicknesses or poor ventilation will extend drying and recoat times. For interior applications, mechanical ventilation must be supplied throughout the 7 day curing process (see warnings below)

CLEANUP: Clean equipment immediately after use with xylene or Aromatic 100 and dry for storage. Note: When using solvents, acids, cleaners or any chemicals, follow manufacturer's label directions for use and recommended protective equipment

Pot Life: 8 hours
Coverage: 500-550 sq ft per gallon
Curing Time: Tack Free: 4 hrs
Recoat: 12 – 18 hrs
Hard: 24 hrs

Package: This is a 1-to-1 mixture package is 2-1 gallon cans per kit.

NOTE: All dry and cure times are based on 75°F at 50% humidity. Individual dry times and pot life may vary depending upon other conditions. Application is not recommended where the indoor relative humidity is over 80% or where the surface temperature to be coated is led than 60°F. For best results, apply two thin coats rather than one thick coat.

*More information on label

Pictograms:

Gray and Black A and B

Signal Word:
DANGER. A. Gray A. Black and B. Black
Warning. B Gray

Personal Protective Equipment Required:

DOT Placard:

SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2127	**COMPANY PHONE:**	1-800-241-8180
PRODUCT NAME:	SURFACE SEAL BLACK PART A	**EMERGENCY TELEPHONE:**	1-800-241-8180
PRODUCT DESCRIPTION:	Two-Part Epoxy Coating	**INFOTRAC:**	1-800-535-5053
COMPANY INFORMATION:	**PRO CHEM, INC.** 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Flam. Liq.: Category 3
Skin Irrit.: Category 2
Eye Irrit.: Category 2A
Skin Sens.: Category 1
Carc.:: Category 1A
STOT RE: Category 2

SIGNAL WORD:
DANGER

SYMBOL:



HAZARD-DETERMINING COMPONENTS OF LABELING:
Quartz (SiO2)
ethylbenzene
Carbon black
3,6-diazaoctanethylenediamin

HAZARD STATEMENTS:
Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause damage to the hearing organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves / eye protection / face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response:
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
IF EXPOSED OR CONCERNED: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
IN CASE OF FIRE: Use for extinction: CO2, sand, extinguishing powder.
Take off contaminated clothing and wash it before reuse.

Storage:
Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Results of PBT and vPvB assessment:
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	% by WEIGHT
Quartz (SiO2)	14808-60-7	30-40
4-chloro-alpha,alpha,alpha-trifluorotoluene	98-56-6	25-30
reaction mass of: triisopropanolamine salt of 1-amino-4-(3-propionamidoanilino) anthraquinone-2-	186148-38-9	10-20

sulfonic acid; triisopropanolamine salt of 1-amino-4-[3,4-dimethyl-5-(2-hydroxyethylaminosulfonyl)anilino]anthraquinone-2-sulfonic acid		
Xylene	1330-20-7	5-<10
2-methoxy-1-methylethyl acetate	108-65-6	2.5-5
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-5
Carbon black	1333-86-4	1-2.5
Ethylbenzene	100-41-4	1-2.5
Naphtha (petroleum), heavy alkylate	64741-65-7	1-2.5
1,2,4-trimethylbenzene	95-63-6	0.1-<1
3,6-diazaoctanethylenediamin	112-24-3	0.1-0.5
Cumene	98-82-8	0.1-≤0.5

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SKIN: Immediately wash with water and soap and rinse thoroughly.

INHALATION:

In case of unconsciousness, place patient stably in side position for transportation.

INGESTION:

Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO2, sand, extinguishing powder. Do not use water.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Water with full jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained respiratory protective device.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Do not allow product to reach sewage system or any watercourse. Inform respective authorities in case of seepage into watercourse or sewage system. Do not allow to enter sewers/ surface or ground water.

METHODS MATERIALS FOR CONTAINMENT & CLEAN UP:

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosions and fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

SAFE STORAGE & INCOMPATIBILITIES:

Requirements to be met by storerooms and receptacles: No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

· **Specific end use(s):** No further relevant information available.

8. Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

No further data; see Section 7.

CONTROL PARAMETERS:

Components with limit values that require monitoring at the workplace:

14808-60-7 Quartz (SiO2)

PEL: See Quartz liting

REL: Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

TLV: Long-term value: 0.025* mg/m³
*as respirable fraction

1330-20-7 xylene
PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI
108-65-6 2-methoxy-1-methylethyl acetate
WEEL Long-term value: 50 ppm
1333-86-4 Carbon black
PEL: Long-term value: 3.5 mg/m³
REL: Long-term value: 3.5* mg/m³
*0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV Long-term value: 3* mg/m³
*inhalable fraction
100-41-4 ethylbenzene
PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Long-term value: 87 mg/m³, 20 ppm
BEI

INGREDIENTS WITH BIOLOGICAL LIMIT VALUES:
1330-20-7 xylene
BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids
100-41-4 ethylbenzene
BEI 0.7 g/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
Medium: end-exhaled air
Time: not critical
Parameter: Ethyl benzene (semi-quantitative)
Additional information: The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Tightly sealed goggles.
SKIN PROTECTION: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has, therefore, to be checked prior to the application. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
RESPIRATORY PROTECTION: In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
GENERAL HYGIENE CONSIDERATIONS: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before eating, smoking, using the restroom and at the end of the workday. Avoid contact with the skin. Avoid contact with the eyes and skin.

9. Physical & Chemical Properties

APPEARANCE:		**FLAMMABILITY(solid/gas):**	Not applicable.
Form:	Liquid.	**IGNITION TEMPERATURE:**	500 °C (932 °F)
Color:	Black.	**DANGER OF EXPLOSION:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
ODOR:	Pungent.	**Explosive Limit-Lower (%):**	Not determined.
ODOR THRESHOLD:	Not determined.	**Explosive Limit-Upper (%):**	Not determined.
pH:	Not applicable.	**DENSITY AT 20°C(68°F):**	1.35 g/cm³ (11.266 lbs/gal)
MELTING POINT/RANGE:	Undetermined.	**VAPOR PRESSURE:**	Not determined.
BOILING POINT/RANGE:	> 138 °C (> 280 °F)	**RELATIVE DENSITY:**	Not determined.
SOLIDS CONTENT:	67.7%	**SOLUBILITY (water):**	Not miscible or difficult to mix.
FLASH POINT:	34 °C (93 °F)	**AUTO-IGNITION TEMP:**	Product is not self-igniting.
EVAPORATION RATE:	Slower than ether.	**DECOMPOSITION TEMP:**	Not determined.
SOLVENT CONTENT:	55.5%	**VISCOSITY (kinematic):**	Not determined.
Organic solvents:	44.5%	**VISCOSITY (dynamic:**	Not determined.

VOC content:	18.7 %; <340 g/l when blended with Part B	**PARTITION COEFFICIENT (n-octanol/water):**	Not determined.
		VAPOR DENSITY:	Heavier than air.

10. Stability & Reactivity Information

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:
No decomposition if used according to specifications.
POSSIBILITY OF HAZARDOUS REACTIONS:
No dangerous reactions known.
INCOMPATIBLE MATERIALS:
Strong acids and alkalis, bleach, strong oxidizers.
CONDITIONS TO AVOID:
Do not store or use near sparks, flame, or other ignition sources.
DECOMPOSITION PRODUCTS:
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11. Toxicological Information

ACUTE TOXICITY:
LD/LC50 values that are relevant for classification:
1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

PRIMARY IRRITANT EFFECT:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: No sensitizing effects known.
Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.
CARCINOGENIC CATEGORIES:
IARC (International Agency for Research on Cancer):

14808-60-7	Quartz (SiO2)	1
1330-20-7	xylene	3
1333-86-4	Carbon black	2B
100-41-4	ethylbenzene	2B
98-82-8	cumene	2B
14464-46-1	cristobalite	1

NTP (National Toxicology Program):

98-82-8	cumene	R
14808-60-7	Quartz (SiO2)	K
14464-46-1	cristobalite	K

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

12. Ecological Information

AQUATIC TOXICITY:
No further relevant information available.
PERSISTENCE AND DEGRADABILITY:
No further relevant information available.
BIOACCUMULATIVE POTENTIAL:
No further relevant information available.
MOBILITY IN SOIL:
No further relevant information available.
ECOTOXICAL EFFECTS:
Remark: Harmful to fish.
OTHER ADVERSE EFFECTS:
Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.

13. Disposal Consideration

WASTE TREATMENT METHODS:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
UNCLEAN PACKAGES:
Disposal must be made according to official regulations.

14. Transportation Information

UN-NUMBER:
DOT, IMDG, IATA UN1263
UN PROPER SHIPPING NAME:
DOT Paint
IMDG, IATA PAINT

TRANSPORT HAZARD CLASS(es):

DOT
Class 3 Flammable liquids
Label 3
IMDG, IATA
Class 3 Flammable liquids
Label 3

PACKING GROUP:
DOT, IMDG, IATA III
Environmental hazards:
Marine pollutant: No

SPECIAL PRECAUTIONS FOR USER: Warning: Flammable liquids
Danger code (Kemler): 40
EMS Number: F-E, S-E

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE:
Not applicable.

UN "MODEL REGULATION:"
UN1263, Paint, 3, III

15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE: SARA:
Section 355 (extremely hazardous substances): None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
1330-20-7 xylene
100-41-4 ethylbenzene
95-63-6 1,2,4-trimethylbenzene
98-82-8 cumene
71-36-3 butan-1-ol
TSCA (Toxic Substances Control Act): All ingredients are listed.

PROPOSITION 65:
Chemicals known to cause cancer:
14808-60-7 Quartz (SiO2)
1333-86-4 Carbon black
13463-67-7 titanium dioxide
100-41-4 ethylbenzene
98-82-8 cumene
14464-46-1 cristobalite
Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
Chemicals known to cause developmental toxicity: None of the ingredients is listed.

CARCINOGENIC CATEGORIES:
EPA (Environmental Protection Agency)

1330-20-7 xylene	I
100-41-4 ethylbenzene	D
98-82-8 cumene	D, CBD
71-36-3 butan-1-ol	D
111-76-2 2-butoxyethanol	NL

TLV (Threshold Limit Value established by ACGIH)

1333-86-4 Carbon Black	A2
1330-20-7 xylene	A4
100-41-4 ethylbenzene	A3
14808-60-7 Quartz (SiO2)	A2
14464-46-1 cristobalite	A2

NIOSH-Ca (National Institute for Occupational Safety and Health)
14808-60-7 Quartz (SiO2)
1333-86-4 Carbon black
14464-46-1 cristobalite

16. Other Information

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 1A: Carcinogenicity, Hazard Category 1A
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2127	**COMPANY PHONE:**	1-800-241-8180
PRODUCT NAME:	SURFACE SEAL BLACK, PART B	**EMERGENCY TELEPHONE:**	1-800-241-8180
PRODUCT DESCRIPTION:	Two-Part Epoxy Coating	**INFOTRAC:**	1-800-535-5053
COMPANY INFORMATION:	**PRO CHEM, INC.** 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Flam. Liq. Category 3
Skin Irrit.: Category 2
Eye Irrit.: Category 2A
Skin Sens.: Category 1
Carc.: Category 2
STOT RE: Category 2

SIGNAL WORD:
WARNING

SYMBOL:



HAZARD-DETERMINING COMPONENTS OF LABELING:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)
4-methylpentan-2-one
ethylbenzene

HAZARD STATEMENTS:
Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause damage to the hearing organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves / eye protection / face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response:
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
IF EXPOSED OR CONCERNED: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
IN CASE OF FIRE: Use for extinction: CO2, sand, extinguishing powder.
Take off contaminated clothing and wash it before reuse.

Storage:
Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal:
Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	CONCENTRATION % by WEIGHT
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700)	25068-38-6	40-60
4-chloro-alpha,alpha,alpha-trifluorotoluene	98-56-6	30-40

4-methylpentan-2-one	108-10-1	5-<10
Xylene	1330-20-7	2.5-5
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-5
1,2,4-trimethylbenzene	95-63-6	1-<2.5
Ethylbenzene	100-41-4	1-2.5
Cumene	98-82-8	0.1-≤0.5

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SKIN: Immediately wash with water and soap and rinse thoroughly.

INHALATION:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

INGESTION:

Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO2, sand, extinguishing powder. Do not use water.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Water with full jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained respiratory protective device.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS:

Do not allow product to reach sewage system or any watercourse. Inform respective authorities in case of seepage into watercourse or sewage system. Do not allow to enter sewers/ surface or ground water.

MATERIALS & METHODS FOR CONTAINMENT & CLEAN UP:

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information about protection against explosions and fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

SAFE STORAGE & INCOMPATIBILITIES:

Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.
Specific end use(s): No further relevant information available.

8. Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

No further data; see Section 7.

CONTROL PARAMETERS:

Components with limit values that require monitoring at the workplace:

108-10-1 4-methylpentan-2-one

PEL Long-term value: 410 mg/m³, 100 ppm
REL Short-term value: 300 mg/m³, 75 ppm
Long-term value: 205 mg/m³, 50 ppm
TLV Short-term value: 307 mg/m³, 75 ppm
Long-term value: 82 mg/m³, 20 ppm
BEI

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm
BEI

95-63-6 1,2,4-trimethylbenzene
REL Long-term value: 125 mg/m³, 25 ppm
TLV Long-term value: 123 mg/m³, 25 ppm

100-41-4 ethylbenzene
PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Long-term value: 87 mg/m³, 20 ppm
BEI

INGREDIENTS WITH BIOLOGICAL LIMIT VALUES:

108-10-1 4-methylpentan-2-one
BEI 1 mg/L
Medium: urine
Time: end of shift
Parameter: MIBK

1330-20-7 xylene
BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

100-41-4 ethylbenzene
BEI 0.7 g/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
Medium: end-exhaled air
Time: not critical
Parameter: Ethyl benzene (semi-quantitative)

ADDITIONAL INFORMATION:
The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Tightly sealed goggles.
SKIN PROTECTION: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has, therefore, to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
RESPIRATORY PROTECTION: In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
GENERAL HYGIENE CONSIDERATIONS: Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before eating, smoking, using the restroom and at the end of the workday. Avoid contact with the eyes and skin.

9. Physical & Chemical Properties

APPEARANCE:		**FLAMMABILITY(solid/gas):**	Not applicable.
Form:	Liquid	**IGNITION TEMPERATURE:**	460 °C (860 °F)
Color:	Clear	**DANGER OF EXPLOSION:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
ODOR:	Pungent	**Explosive Limit-Lower (%):**	Not determined.
ODOR THRESHOLD:	Not determined.	**Explosive Limit-Upper (%):**	Not determined.
pH:	Not applicable.	**VAPOR DENSITY:**	Heavier than air.
MELTING POINT/RANGE:	Undetermined.	**RELATIVE DENSITY:**	Not determined.
BOILING POINT/RANGE:	> 114 °C (> 237 °F)	**SOLUBILITY (water):**	Not miscible or difficult to mix.
DENSITY @20°C(68°F):	1.128 g/cm³ (9.413 lbs/gal)	**AUTO-IGNITION TEMP:**	Product is not self-igniting.
FLASH POINT:	29 °C (84 °F)	**DECOMPOSITION TEMP:**	Not determined.
EVAPORATION RATE:	Slower than ether.	**VISCOSITY (kinematic):**	Not determined.
SOLVENT CONTENT:		**VISCOSITY (dynamic):**	Not determined.
Organic solvents:	52.8%	**PARTITION COEFFICIENT (n-octanol/water):**	Not determined.
VOC content:	22.5 % <340 g/l when blended with Part A	**SOLIDS CONTENT:**	47.2%
VAPOR PRESSURE:	Not determined.		

10. Stability & Reactivity Information

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:
No decomposition if used according to specifications.
POSSIBILITY OF HAZARDOUS REACTIONS:
No dangerous reactions known.
INCOMPATIBLE MATERIALS:
Strong acids and alkalis, bleach, strong oxidizers.
CONDITIONS TO AVOID:
Do not store or use near sparks, flame, or other ignition sources.
DECOMPOSITION PRODUCTS:
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11. Toxicological Information

ACUTE TOXICITY:
LD/LC50 values that are relevant for classification:
64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat)

50-00-0 formaldehyde

Oral	LD50	>200 mg/kg (rat)

PRIMARY IRRITANT EFFECT:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: Sensitization possible through skin contact.
Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.
CARCINOGENIC CATEGORIES:
IARC (International Agency for Research on Cancer):

108-10-1 4-	methylpentan-2-one	2B
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
98-82-8	cumene	2B
50-00-0	formaldehyde	1

NTP (National Toxicology Program):

98-82-8	cumene	R
50-00-0	formaldehyde	K

OSHA-Ca (Occupational Safety & Health Administration):

50-00-0	formaldehyde

12. Ecological Information

AQUATIC TOXICITY:
No further relevant information available.
PERSISTENCE AND DEGRADABILITY:
No further relevant information available.
BIOACCUMULATIVE POTENTIAL:
No further relevant information available.
MOBILITY IN SOIL:
No further relevant information available.
ECOTOXICAL EFFECTS:
Toxic for fish.
OTHER ADVERSE EFFECTS:
Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

13. Disposal Consideration

WASTE TREATMENT METHODS:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
UNCLEAN PACKAGES:
Disposal must be made according to official regulations.

14. Transportation Information

UN-NUMBER:
DOT, IMDG, IATA UN1263
UN PROPER SHIPPING NAME:
DOT Paint
IMDG PAINT (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700), Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
IATA PAINT

TRANSPORT HAZARD CLASS(es):

DOT

Class 3 Flammable liquids
Label 3
IMDG

Class 3 Flammable liquids
Label 3
IATA

Class 3 Flammable liquids
Label 3

PACKING GROUP:

DOT, IMDG, IATA III

Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700).

Marine pollutant: Yes
Symbol (fish and tree)

SPECIAL PRECAUTIONS FOR USER:

Warning: Flammable liquids
Danger code (Kemler): 30
EMS Number: F-E,S-E

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 & THE IBC CODE:

Not applicable.

TRANSPORT/ADDITIONAL INFORMATION:

DOT

Quantity limitations: On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

IMDG

Limited quantities (LQ): 5L
Excepted quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "MODEL REGULATION:"

UN1263, Paint, ENVIRONMENTALLY HAZARDOUS, 3, III

15. Regulatory Information

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

SARA:

Section 355 (extremely hazardous substances):

50-00-0	formaldehyde

Section 313 (Specific toxic chemical listings):

108-10-1	4-methylpentan-2-one
1330-20-7	xylene
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
71-36-3	butan-1-ol
98-82-8	cumene
50-00-0	formaldehyde

TSCA (Toxic Substances Control Act):

All ingredients are listed.

PROPOSITION 65:

Chemicals known to cause cancer:

108-10-1	4-methylpentan-2-one
100-41-4	ethylbenzene
98-82-8	cumene
50-00-0	formaldehyde

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
Chemicals known to cause developmental toxicity: 108-10-1 4-methylpentan-2-one

CARCINOGENIC CATEGORIES:

EPA (Environmental Protection Agency)

108-10-1	4-methylpentan-2-one	I
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
71-36-3	butan-1-ol	D

98-82-8	cumene	D, CBD
50-00-0	formaldehyde	B1
TLV (Threshold Limit Value established by ACGIH)		
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
50-00-0	formaldehyde	A2
NIOSH-Ca (National Institute for Occupational Safety and Health)		
50-00-0	formaldehyde	

16. Other Information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitization - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2126	**COMPANY PHONE:**	1-800-241-8180
PRODUCT NAME:	SURFACE SEAL PART A	**EMERGENCY TELEPHONE:**	1-800-241-8180
PRODUCT DESCRIPTION:	Two-Part Epoxy Coating	**INFOTRAC:**	1-800-535-5053
COMPANY INFORMATION:	**PRO CHEM, INC.** 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Flam. Liq.: Category 3
Acute Tox.: Category 4
Skin Irrit.: Category 2
Eye Irrit.: Category 2A
Skin Sens.: Category 1
Carc.: Category 1A
STOT RE: Category 2

SIGNAL WORD:
DANGER

SYMBOL:

HAZARD-DETERMINING COMPONENTS OF LABELING:

titanium dioxide
xylene
ethylbenzene
Solvent naphtha (petroleum), light arom.
Quartz (SiO2)
1,2,4-trimethylbenzene
3,6-diazaoctanethylenediamin

HAZARD STATEMENTS:

Flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause damage to the hearing organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/eye protection/face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a doctor if you feel unwell.
Wash contaminated clothing before reuse.
IF EXPOSED OR CONCERNED: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
IN CASE OF FIRE: Use for extinction: CO2, sand, extinguishing powder.
Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	% by WEIGHT
titanium dioxide	13463-67-7	30-40
calcium carbonate	471-34-1	10-20
reaction mass of: triisopropanolamine salt of 1-amino-4-(3-propionamidoanilino) anthraquinone-2-sulfonic acid; triisopropanolamine salt of 1-amino-4-[3,4-dimethyl-5-(2-hydroxyethylaminosulfonyl) anilino]anthraquinone-2-sulfonic acid	186148-38-9	10-20
4-chloro-alpha,alpha,alpha-trifluorotoluene	98-56-6	10-<20
Xylene	1330-20-7	5-<10
2-methoxy-1-methylethyl acetate	108-65-6	2.5-5
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-5
Ethylbenzene	100-41-4	1-2.5
1,2,4-trimethylbenzene	95-63-6	1-<2.5
3,6-diazaoctanethylenediamin	112-24-3	0.1≤0.5
Cumene	98-82-8	0.1≤0.5
Quartz (SiO2)	14808-60-7	0.1≤0.5

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SKIN: Immediately wash with water and soap and rinse thoroughly.

INHALATION:

In case of unconsciousness, place patient stably in side position for transportation.

INGESTION:

Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO2, sand, extinguishing powder. Do not use water.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Water with full jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained respiratory protective device.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS:

Do not allow product to reach sewage system or any watercourse. Inform respective authorities in case of seepage into watercourse or sewage system. Do not allow to enter sewers/surface or ground water.

METHODS & MATERIALS FOR CONTAINMENT & CLEAN UP:

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosions and fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

SAFE STORAGE & INCOMPATIBILITIES:

Requirements to be met by storerooms and receptacles: No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

SPECIFIC END USE(s):

No further relevant information available.

8. Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:
No further data; see Section 7.

CONTROL PARAMETERS:

Components with limit values that require monitoring at the workplace:

471-34-1 calcium carbonate

PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV	TLV withdrawn

1330-20-7 xylene

PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI

108-65-6 2-methoxy-1-methylethyl acetate

WEEL	Long-term value: 50 ppm

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 87 mg/m³, 20 ppm BEI

95-63-6 1,2,4-trimethylbenzene

REL	Long-term value: 125 mg/m³, 25 ppm
TLV	Long-term value: 123 mg/m³, 25 ppm

INGREDIENTS WITH BIOLOGICAL LIMIT VALUES:

1330-20-7 xylene

BEI
1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI
0.7 g/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
-
Medium: end-exhaled air
Time: not critical
Parameter: Ethyl benzene (semi-quantitative)

ADDITIONAL INFORMATION:
The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Tightly sealed goggles.
SKIN PROTECTION: Hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. **Glove Material:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has, therefore, to be checked prior to the application. **Penetration Time:** The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
RESPIRATORY PROTECTION: In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
GENERAL HYGIENE CONSIDERATIONS: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before eating, smoking, using the restroom and at the end of the workday. Avoid contact with the eyes and skin.

9. Physical & Chemical Properties

APPEARANCE:		**FLAMMABILITY(solid/gas):**	Not applicable.
Form:	Liquid.	**IGNITION TEMPERATURE:**	500°C (932°F)
Color:	Light tint base.	**DANGER OF EXPLOSION:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
ODOR:	Pungent.	**Explosive Limit-Lower (%):**	Not determined.
ODOR THRESHOLD:	Not determined.	**Explosive Limit-Upper (%):**	Not determined.
pH:	Not applicable.	**VAPOR DENSITY:**	Heavier than air.

MELTING/FREEZING POINT:	Undetermined.	**VAPOR PRESSURE:**	Not determined.
BOILING POINT/RANGE:	138°C (280°F)	**RELATIVE DENSITY:**	Not determined.
SOLIDS CONTENT:	67.7 %	**SOLUBILITY/MISCIBILITY (water):**	Not miscible or difficult to mix.
FLASH POINT:	34°C (93°F)	**AUTO-IGNITION TEMP:**	Product is not self-igniting.
EVAPORATION RATE:	Slower than ether.	**DECOMPOSITION TEMP:**	Not determined.
SOLVENT CONTENT:		**VISCOSITY (kinematic):**	Not determined.
Organic solvents:	32.3%	**VISCOSITY (dynamic):**	Not determined.
Water:		**PARTITION COEFFICIENT (n-octanol/water):**	Not determined.
VOC content:	17.0 %--<340 g/l when blended with Part B	**DENSITY @20°C(68°F):**	1.634 g/cm³ (13.636 lbs/gal)

10. Stability & Reactivity Information

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:
No decomposition if used according to specifications.
POSSIBILITY OF HAZARDOUS REACTIONS:
No dangerous reactions known.
INCOMPATIBLE MATERIALS:
Strong acids and alkalis, bleach, strong oxidizers.
CONDITIONS TO AVOID:
Do not store or use near sparks, flame, or other ignition sources.
HAZARDOUS DECOMPOSITION PRODUCTS:
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11. Toxicological Information

ACUTE TOXICITY:
LD/LC50 values that are relevant for classification:
64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalation	LD50/4 hr	>10.2 mg/l (rat)

PRIMARY IRRITANT EFFECT:
on the skin: Irritant to skin and mucous membranes.
on the eye: No irritating effect.
Sensitization: No sensitizing effects known.
ADDITIONAL TOXICOLOGICAL INFORMATION:
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.
CARCINOGENIC CATEGORIES:
IARC (International Agency for Research on Cancer):

13463-67-7	Titanium dioxide	2B
14808-60-7	Quartz (SiO2)	1
1330-20-7	Xylene	3
100-41-4	Ethylbenzene	2B
98-82-8	Cumene	2B
111-76-2	2-butoxyethanol	3
14464-46-1	Cristobalite	1

NTP (National Toxicology Program):

14808-60-7	Quartz (SiO2)	K
98-82-8	Cumene	R
14464-46-1	Cristobalite	K

OSHA-Ca (Occupational Safety & Health Administration):
None of the ingredients is listed.

12. Ecological Information

AQUATIC TOXICITY:
No further relevant information available.
PERSISTENCE AND DEGRADABILITY:
No further relevant information available.
BIOACCUMULATIVE POTENTIAL:
No further relevant information available.
ECOTOXICAL EFFECTS:
Remark: Harmful to fish.
ADDITIONAL ECOTOXICAL EFFECTS:
Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.
OTHER ADVERSE EFFECTS:
No further relevant information available.

13. Disposal Consideration

WATER TREATMENT METHODS:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

UNCLEAN PACKAGES:

Disposal must be made according to official regulations.

14. Transportation Information

UN-Number:

DOT, IMDG, IATA: UN1263

UN PROPER SHIPPING NAME:

DOT: Paint.

IMDG, IATA: PAINT.

IMDG, IATA

Transport hazard class(es):

DOT:

Class: 3-Flammable liquids.

Label: 3

IMDG, IATA:

Class: 3-Flammable liquids.

Label: 3

PACKAGING GROUP:

DOT, IMDG, IATA: III

ENVIRONMENTAL HAZARDS:

Marine pollutant: No.

SPECIAL PRECAUTIONS FOR USER:

Warning: Flammable liquids

· **Danger code (Kemler):** 30

· **EMS Number:** F-E, S-E

TRANSPORT IN BULK ACCORDING TO ANNEX II of MARPOL 73/78 and the IBC Code:

Not applicable.

TRANSPORT/ADDITIONAL INFORMATION:

DOT Quantity limitations: On passenger aircraft/rail: 60 L

Quantity limitations: On cargo aircraft only: 220 L

IMDG: **Limited quantities (LQ):** 5L

Excepted quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "MODEL REGULATION":

UN1263, Paint, 3, III

15. Regulatory Information

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

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
100-41-4	ethylbenzene
95-63-6	1,2,4-trimethylbenzene
98-82-8	cumene
71-36-3	butan-1-ol
111-76-2	2-butoxyethanol

TSCA (Toxic Substances Control Act): All ingredients are listed.

PROPOSITION 65: CHEMICALS KNOWN TO CAUSE CANCER:

13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO2)
100-41-4	ethylbenzene
98-82-8	cumene
14464-46-1	cristobalite

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

CARCINOGENIC CATEGORIES:

EPA (Environmental Protection Agency):

1330-20-7	Xylene	I
100-41-4	Ethylbenzene	D
98-82-8	Cumene	D, CBD
71-36-3	butan-1-ol	D
111-76-2	2-butoxyethanol	NL

TLV (Threshold Limit Value established by ACGIH)

14808-60-7	Quartz (SiO2)	A2
13463-67-7	Titanium dioxide	A4
111-76-2	2-butoxyethanol	A3
1330-20-7	Xylene	A4
100-41-4	Ethylbenzene	A3
14464-46-1	Cristobalite	A2

NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO2)
14464-46-1 cristobalite
13463-67-7 Titanium dioxide

CHEMICAL SAFETY ASSESSMENT:

A Chemical Safety Assessment has not been carried out.

16. Other Information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitization - Skin, Hazard Category 1
Carc. 1A: Carcinogenicity, Hazard Category 1A
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

PRO CHEM SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2126	**COMPANY PHONE:**	1-800-241-8180
PRODUCT NAME:	SURFACE SEAL GRAY, PART B	**EMERGENCY TELEPHONE:**	1-800-241-8180
PRODUCT DESCRIPTION:	Two-Part Epoxy Coating	**INFOTRAC:**	1-800-535-5053
COMPANY INFORMATION:	**PRO CHEM, INC.** 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Flam. Liq.: Category 3
Skin Irrit.: Category 2
Eye Irrit.: Category 2A
Skin Sens.: Category 1
Carc.: Category 2
STOT RE: Category 2

SIGNAL WORD:
WARNING

SYMBOL:



HAZARD-DETERMINING COMPONENTS OF LABELING:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)
4-methylpentan-2-one
ethylbenzene

HAZARD STATEMENTS:
Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause damage to the hearing organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves / eye protection / face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Repsonse:
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
IF EXPOSED OR CONCERNED: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
IN CASE OF FIRE: Use for extinction: CO2, sand, extinguishing powder.
Take off contaminated clothing and wash it before reuse.

Storage:
Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	CONCENTRATION % by WEIGHT
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700)	25068-38-6	40-60
4-chloro-alpha,alpha,alpha-trifluorotoluene	98-56-6	30-40
4-methylpentan-2-one	108-10-1	5-<10

Xylene	1330-20-7	2.5-5
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-5
1,2,4-trimethylbenzene	95-63-6	1-<2.5
Ethylbenzene	100-41-4	1-2.5
Cumene	98-82-8	0.1-≤0.5

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SKIN: Immediately wash with water and soap and rinse thoroughly.

INHALATION:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

INGESTION:

Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO2, sand, extinguishing powder. Do not use water.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Water with full jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained respiratory protective device.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Do not allow product to reach sewage system or any watercourse. Inform respective authorities in case of seepage into watercourse or sewage system. Do not allow to enter sewers/ surface or ground water.

MATERIALS & METHODS FOR CONTAINMENT & CLEAN UP:

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosions and fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

SAFE STORAGE & INCOMPATIBILITIES:

Requirements to be met by storerooms and receptacles: No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

· **Specific end use(s):** No further relevant information available.

8. Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

No further data; see Section 7.

CONTROL PARAMETERS:

Components with limit values that require monitoring at the workplace:

108-10-1 4-methylpentan-2-one

PEL Long-term value: 410 mg/m³, 100 ppm
REL Short-term value: 300 mg/m³, 75 ppm
Long-term value: 205 mg/m³, 50 ppm
TLV Short-term value: 307 mg/m³, 75 ppm
Long-term value: 82 mg/m³, 20 ppm
BEI

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

95-63-6 1,2,4-trimethylbenzene
REL Long-term value: 125 mg/m³, 25 ppm
TLV Long-term value: 123 mg/m³, 25 ppm
100-41-4 ethylbenzene
PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Long-term value: 87 mg/m³, 20 ppm
BEI

INGREDIENTS WITH BIOLOGICAL LIMIT VALUES:
108-10-1 4-methylpentan-2-one
BEI 1 mg/L
Medium: urine
Time: end of shift
Parameter: MIBK
1330-20-7 xylene
BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids
100-41-4 ethylbenzene
BEI 0.7 g/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
Medium: end-exhaled air
Time: not critical
Parameter: Ethyl benzene (semi-quantitative)

ADDITIONAL INFORMATION:
The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Tightly sealed goggles.
SKIN PROTECTION: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has, therefore, to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
RESPIRATORY PROTECTION: In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
GENERAL HYGIENE CONSIDERATIONS: Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before eating, smoking, using the restroom and at the end of the workday. Avoid contact with the eyes and skin.

9. Physical & Chemical Properties

APPEARANCE:		**FLAMMABILITY(solid/gas):**	Not applicable.
Form:	Liquid.	**IGNITION TEMPERATURE:**	460 °C (860 °F)
Color:	Clear.	**DANGER OF EXPLOSION:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
ODOR:	Pungent.	**Explosive Limit-Lower (%):**	Not determined.
ODOR THRESHOLD:	Not determined.	**Explosive Limit-Upper (%):**	Not determined.
pH:	Not applicable.	**VAPOR DENSITY:**	Heavier than air.
MELTING POINT/RANGE:	Undetermined.	**RELATIVE DENSITY:**	Not determined.
BOILING POINT/RANGE:	> 114 °C (> 237 °F)	**SOLUBILITY (water):**	Not miscible or difficult to mix.
DENSITY @20°C(68°F):	1.128 g/cm³ (9.413 lbs/gal)	**AUTO-IGNITION TEMP:**	Product is not self-igniting.
FLASH POINT:	29 °C (84 °F)	**DECOMPOSITION TEMP:**	Not determined.
EVAPORATION RATE:	Slower than ether.	**VISCOSITY (kinematic):**	Not determined.
SOLVENT CONTENT:		**VISCOSITY (dynamic):**	Not determined.
Organic solvents:	52.8%	**PARTITION COEFFICIENT (n-octanol/water):**	Not determined.
VOC content:	22.5 % <340 g/l when blended with Part A	**SOLIDS CONTENT:**	47.2%
		VAPOR PRESSURE:	Not determined.

10. Stability & Reactivity Information

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:
No decomposition if used according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS:
No dangerous reactions known.
INCOMPATIBLE MATERIALS:
Strong acids and alkalis, bleach, strong oxidizers.
CONDITIONS TO AVOID:
Do not store or use near sparks, flame, or other ignition sources.
DECOMPOSITION PRODUCTS:
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11. Toxicological Information

ACUTE TOXICITY:
LD/LC50 values that are relevant for classification:
64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat)

50-00-0 formaldehyde

Oral	LD50	>200 mg/kg (rat)

PRIMARY IRRITANT EFFECT:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: Sensitization possible through skin contact.
ADDITIONAL TOXICOLOGICAL INFORMATION:
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.
CARCINOGENIC CATEGORIES:
IARC (International Agency for Research on Cancer):

108-10-1 4-	methylpentan-2-one	2B
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
98-82-8	cumene	2B
50-00-0	formaldehyde	1

NTP (National Toxicology Program):

98-82-8	cumene	R
50-00-0	formaldehyde	K

OSHA-Ca (Occupational Safety & Health Administration):

50-00-0	formaldehyde

12. Ecological Information

AQUATIC TOXICITY:
No further relevant information available.
PERSISTENCE AND DEGRADABILITY:
No further relevant information available.
BIOACCUMULATIVE POTENTIAL:
No further relevant information available.
MOBILITY IN SOIL:
No further relevant information available.
ECOTOXICAL EFFECTS:
Toxic for fish.
OTHER ADVERSE EFFECTS:
Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

13. Disposal Consideration

WASTE TREATMENT METHODS:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
UNCLEAN PACKAGES:
Disposal must be made according to official regulations.

14. Transportation Information

UN-Number:
DOT, IMDG, IATA: UN1263
UN PROPER SHIPPING NAME:
DOT: Paint
IMDG: PAINT (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700), Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
IATA: PAINT
TRANSPORT HAZARD CLASS(es):
DOT:

Class 3 Flammable liquids
Label 3
IMDG:

Class 3 Flammable liquids
Label 3
IATA:

Class 3 Flammable liquids
Label 3

PACKING GROUP:
DOT, IMDG, IATA: III
Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700).
Marine pollutant: Yes. Symbol (fish and tree)

SPECIAL PRECAUTIONS FOR USER:
Warning: Flammable liquids
Danger code (Kemler): 30
EMS Number: F-E, S-E

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 & THE IBC CODE:
Not applicable.

TRANSPORT/ADDITIONAL INFORMATION:
DOT Quantity limitations: On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L
IMDG:
Limited quantities (LQ): 5L
Excepted quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "MODEL REGULATION:"
UN1263, Paint, ENVIRONMENTALLY HAZARDOUS, 3, III

15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE: SARA:
Section 355 (extremely hazardous substances):
50-00-0 formaldehyde
Section 313 (Specific toxic chemical listings):
108-10-1 4-methylpentan-2-one
1330-20-7 xylene
95-63-6 1,2,4-trimethylbenzene
100-41-4 ethylbenzene
71-36-3 butan-1-ol
98-82-8 cumene
50-00-0 formaldehyde
TSCA (Toxic Substances Control Act): All ingredients are listed.
PROPOSITION 65: Chemicals known to cause cancer:
108-10-1 4-methylpentan-2-one
100-41-4 ethylbenzene
98-82-8 cumene
50-00-0 formaldehyde
· **Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.
· **Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.
· **Chemicals known to cause developmental toxicity:** 108-10-1 4-methylpentan-2-one

CARCINOGENIC CATEGORIES:
· **EPA (Environmental Protection Agency)**

108-10-1	4-methylpentan-2-one	I
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
71-36-3	butan-1-ol	D
98-82-8	cumene	D, CBD
50-00-0	formaldehyde	B1

TLV (Threshold Limit Value established by ACGIH)

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
50-00-0	formaldehyde	A2

NIOSH-Ca (National Institute for Occupational Safety and Health)
50-00-0 formaldehyde

16. Other Information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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PRO CHEM®

Surface Seal

Solvent-Base 2 Part Epoxy Coating

Component A

- Highly resistant to scrubbing, scuffing, and various industrial chemicals
- High gloss, hardness, and overall performance
- Can be used on just about any surface

DANGER!
FLAMMABLE LIQUID & VAPOR | VAPOR HARMFUL
EYE & SKIN IRRITANT | MAY CAUSE ALLERGIC SKIN REACTION
KEEP OUT OF REACH OF CHILDREN
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS.
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)
NET CONTENTS: 1 GALLON

#2126

WARNING!
LEAD IS TOXIC
SEE OTHER
WARNINGS
ON BACK PANEL

RECOMMENDED INSTRUCTIONS FOR PRO CHEM SURFACE SEAL TWO-COMPONENT EPOXY

PRO CHEM®

DESCRIPTION: Surface Seal Polyamide Epoxy is a two-component, solventborne coating designed to protect and beautify interior and exterior masonry, metal and fiberglass. It provides excellent chemical and corrosion resistance. It dries to a hard, high-gloss film with outstanding resistance to wearing, abrasion, algae and mildew. The high solids formulation is easy to apply and maintain making it ideal for residential, commercial and institutional applications.

SURFACE PREPARATION: Proper surface preparation and application is critical in obtaining optimum performance of this product. All surfaces must be clean, dry, and free from dirt, mildew, chalk, algae, tanning lotion, rust, efflorescence, laitance, loose paint and other foreign matter. All spalling, powdery, or unsound masonry and any cracks, holes, or other imperfections must be repaired with a proper material suitable for pool use. All rust must be removed by mechanically abrading or sand blasting.

Bare Masonry: New pools should stand at least 60 days and repaired surfaces should age at least 30 days before starting surface preparation. After aging, clean the surface with an Muriatic Acid solution to remove any contaminates. Rinse completely and allow to dry. Then etch surface with dilute muriatic acid to promote coating penetration and adhesion. Rinse with clean water until all residue is gone. Repeat as necessary until the masonry has the roughness of fine sandpaper. Any loose aggregate must be removed to a clean, sound surface. Allow to dry completely before painting, usually 2-3 days under good conditions with moderate ventilation.

Bare Metal & Fiberglass: Make sure the surface is clean as stated above. Glossy metal or fiberglass should be lightly scuff sanded and cleaned to promote adhesion. Apply this product directly to the surface, no primer is necessary.

Previously Painted Surfaces: If the previous coating is sound, clean using a cleaner/degreaser. Rinse well. Repeat as needed until the surface is completely clean including the removal of all chalk and tanning oils. A power washer may aid in the cleaning process. Any bare spots or damage should be repaired then follow bare surface directions above. Glossy surfaces must be scuff sanded and cleaned to promote adhesion. Allow to dry completely before painting, usually 2-3 days under good conditions with moderate ventilation. Coatings in poor condition must be removed to a sound substrate then follow the appropriate bare surface directions above.

MIXING & APPLICATION:
1.Mix and apply when rain is not expected for 3-5 days, temperature is 50-90F and relative humidity is less than 85%.
2.Pour all of Part B (909-30) into pigmented Part A (909-XX) and mix thoroughly with a drill mounted mixing blade. Mix until a uniform color is obtained (generally 3-5 minutes). Avoid air entrapment. Let sit for 30 minutes after mixing for induction.
3.Pot life after mixing is 8 hours. Do not use beyond this timeframe even if product appears normal as this may lead to coating failure.
4.Apply without thinning by brush, roller, or spray at 400-500 square feet per gallon. Square foot averages may vary depending on surface texture and porosity. Do not paint in direct sunlight but below the shade.
5.Work the coating into pores to produce a continuous, unbroken film. Apply in multiple coats at the recommended spreading rate. For best results, 2 coats are suggested for all applications and a minimum of 2 coats are required on bare masonry in order to ensure sufficient film thickness and filling of all voids.
6.Allow unused material to harden in the can and then discard in accordance with local, state, and federal regulations.

DRYING: This product dries for recoating in 12-18 hours under good conditions. If over 24 hours lapses between coats, lightly scuff sand and re-clean the surface before applying the next coat. Allow the paint to cure for at least 7 days before use. Cool temperatures, high humidity, heavy film thicknesses or poor ventilation will extend drying and recoat times. For interior applications, mechanical ventilation must be supplied throughout the 7 day curing process (see warnings below).

CLEANUP: Clean equipment immediately after use with xylene or Aromatic 100 and dry for storage. Note: When using solvents, acids, cleaners or any chemicals, follow manufacturer's label directions for use and recommended protective equipment.

GENERAL: Coating failure may occur if label directions are not followed completely. Not recommended for use over chlorinated rubber or 4-Way latex paints. Do not mix or tint with solvents or other paints. Due to varying conditions beyond our control such as surface preparation, application procedures, substrate and curing conditions, manufacturer's liability is limited to product replacement or refund of purchase price.

DANGER!
FLAMMABLE LIQUID AND VAPOR
VAPOR HARMFUL ● EYE & SKIN IRRITANT
MAY CAUSE ALLERGIC SKIN REACTION

Contains: Polymer of Diethlenetriamine & Bisphenol A, Methyl Isobutyl Ketone, Xylene, Ethylbenzene, Aromatic Naphtha, & Paraethoxybenzalkonide. Vapor Harmful. May affect the brain or nervous system causing dizziness, headache, or nausea. Causes eye, skin, nose and throat irritation. Can be absorbed through skin. May cause liver and kidney damage. May cause allergic skin reaction. Hotice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Harmful or fatal if swallowed.

Keep away from heat, sparks, and flames. Vapors may cause flash fire. Close container after each use. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Use only with adequate ventilation. Do not breathe spray, mist, dust or vapors. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or clothing. Wash thoroughly after handling.

First Aid: If you experience difficulty breathing, leave area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wipe off excess and wash thoroughly with soap and water. If swallowed, do not induce vomiting. Get medical attention immediately.

Spills: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.**

CAUTION! Surface contaminants such as tanning lotion, water and other materials, may cause unhazardous, slippery surfaces requiring caution to prevent injury.

KEEP OUT OF REACH OF CHILDREN

An Exclusive Product of Pro Chem Inc.
1475 Bluegrass Lakes Parkway • Alpharetta, Georgia 30004
800-241-8183 • www.prochemlac.com

PRO CHEM

Surface Seal

Solvent-Base 2 Part Epoxy Coating

Component B

- Highly resistant to scrubbing, scuffing, and various industrial chemicals
- High gloss, hardness, and overall performance
- Can be used on just about any surface

DANGER!
FLAMMABLE LIQUID & VAPOR | VAPOR HARMFUL
EYE & SKIN IRRITANT | MAY CAUSE ALLERGIC SKIN REACTION
KEEP OUT OF REACH OF CHILDREN
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS.
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)
NET CONTENTS: 1 GALLON

#2126

WARNING!

LEAD IS TOXIC
(SEE OTHER WARNINGS ON BACK PANEL)

RECOMMENDED INSTRUCTIONS FOR PRO CHEM SURFACE SEAL TWO-COMPONENT EPOXY

PRO CHEM

DESCRIPTION: Surface Seal Polyamide Epoxy is a two-component, solventborne coating designed to protect and beautify interior and exterior masonry, metal and fiberglass. It provides excellent chemical and corrosion resistance. It dries to a heavy-duty, high gloss film with outstanding resistance to wearing, abrasion, algae and mildew. The high solids formulation is easy to apply and maintain making it ideal for residential, commercial and institutional applications.

SURFACE PREPARATION: Proper surface preparation and application is critical in obtaining optimum performance of this product. All surfaces must be clean, dry, and free from dirt, mildew, chalk, algae, tanning lotion, rust, efflorescence, laitance, loose paint and other foreign matter. All spalling, powdery, or unsound masonry and any cracks, holes, or other imperfections must be repaired with a proper material suitable for pool use. All rust must be removed by mechanically abrading or sand blasting.

Bare Masonry: New pools should age at least 60 days and repaired surfaces should age at least 30 days before starting surface preparation. After aging, clean the surface with an Ivane Degreaser to remove any contaminates. Rinse completely and allow to dry. Then etch surface with dilute muriatic acid to promote coating penetration and adhesion. Rinse with clean water until all residue is gone. Repeat as necessary until the masonry has the roughness of fine sandpaper. Any loose aggregate must be mixed to a clean, sound surface. Allow to dry completely before painting, usually 2-3 days under good conditions with moderate ventilation.

Bare Metal & Fiberglass: Make sure the surface is clean as stated above. Glossy metal or fiberglass should be lightly scuff sanded and cleaned to promote adhesion. Apply this product directly to the surface, no primer is necessary.

Previously Painted Surfaces: If the previous coating is sound, clean using a chemical degreaser. Rinse well. Repeat as needed until the surface is completely clean including the removal of all chalk and tanning oils. A power washer may aid in the cleaning process. Any bare spots or damage should be repaired then follow bare surface directions above. Glossy surfaces must be scuff sanded and cleaned to promote adhesion. Allow to dry completely before painting, usually 2-3 days under good conditions with moderate ventilation. Coatings in poor condition must be removed to a sound substrate then follow the appropriate bare surface directions above.

MIXING & APPLICATION:
1.Mix and apply when rain is not expected for 3-5 days, temperature is 50-90F and relative humidity is less than 85%.
2.Pour all of Part B (926-30) into pigmented Part A (909-XX) and mix thoroughly with a drill mounted mixing blade. Mix until a uniform color is obtained (generally 3-5 minutes). Avoid air entrapment. Let sit for 30 minutes after mixing for induction.
3.Pot life after mixing is 8 hours. Do not use beyond this timeframe even if product appears normal as this may lead to coating failure.
4.Apply without thinning by brush, roller, or spray at 400-500 square feet per gallon. Square foot averages may vary depending on surface texture and porosity. Do not paint in direct sunlight but follow the shade.
5.Work the coating into pores to produce a continuous, uninterrupted film. Apply in multiple coats at the recommended spreading rate. For best results, 2 coats are suggested for all applications and a minimum of 2 coats are required on bare masonry in order to ensure sufficient film thickness and lining of all voids.
6.Allow unused material to harden in the can and then discard in accordance with local, state, and federal regulations.

DRYING: This product dries for recoating in 12-18 hours under good conditions. If over 24 hours elapse between coats, lightly scuff sand and re-clean the surface before applying the next coat. Allow the paint to cure for at least 7 days before use. Cool temperatures, high humidity, heavy film thicknesses or poor ventilation will extend drying and recoat times. For interior applications, mechanical ventilation must be applied throughout the 7 day curing process (see warnings below).

CLEANUP: Clean equipment immediately after use with xylene or Aromatic 100 and dry for storage. Note: When using solvents, acids, cleaners or any chemicals, follow manufacturer's label directions for use and recommended protective equipment.

GENERAL: Coating failure may occur if label directions are not followed or explicitly not recommended for use over chlorinated rubber or rubber base paints. Do not thin or mix with solvents or other paints. Due to varying conditions beyond our control such as surface preparation, application procedures, substrate and curing conditions, manufacturer's liability is limited to product replacement or refund of purchase price.

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FLAMMABLE LIQUID AND VAPOR
VAPOR HARMFUL ● EYE & SKIN IRRITANT
MAY CAUSE ALLERGIC SKIN REACTION

Contains: Polymer of Epichlorohydrin & Bisphenol A, Methyl Isobutyl Ketone, Xylene, Ethylbenzene, Aromatic Naphtha, & Parachlorobenzotrifluoride. Vapor Harmful. May affect the brain or nervous system causing dizziness, headache, or nausea. Causes eye, skin, nose and throat irritation. Can be absorbed through skin. May cause liver and kidney damage. May cause allergic skin reaction. Medical Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Harmful or fatal if swallowed.

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CAUTION! Surface contaminants such as tanning lotion, water and other materials, may cause a hazardous, slippery surface requiring caution to prevent injury.

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