



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:			
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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 (SiO ₂)	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 listing

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/cm ³ (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:			
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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 $\square 700$)	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/cm ³ (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)
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50-00-0 formaldehyde

Oral	LD50	>200 mg/kg (rat)
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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	
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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 \square 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 \leq 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)

HMS: 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:	
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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 (SiO ₂)	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/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

1330-20-7 xylene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

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

WEEL	Long-term value: 50 ppm
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100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

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

REL	Long-term value: 125 mg/m ³ , 25 ppm
TLV	Long-term value: 123 mg/m ³ , 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
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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)
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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/cm ³ (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 (SiO ₂)	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 (SiO ₂)	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 (SiO ₂)
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 (SiO ₂)	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.



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:			
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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 $\square 700$)	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-trimethylbenzeneREL Long-term value: 125 mg/m³, 25 ppmTLV Long-term value: 123 mg/m³, 25 ppm**100-41-4 ethylbenzene**PEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 545 mg/m³, 125 ppmLong-term value: 435 mg/m³, 100 ppmTLV 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/cm ³ (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)
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50-00-0 formaldehyde

Oral	LD50	>200 mg/kg (rat)
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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	
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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 \square 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

DISCLAIMER:

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