





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2112	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	RAPID SET PART A	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Low Temperature Epoxy Binder	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Skin irritation: Category 2 Eye Irritation: Category 2A Skin Sensitization: Category 1 Aquatic Toxicity, acute: Category 2 Aquatic Toxicity, chronic: Category 2 STOT (single exposure): Category 3	SIGNAL WORD: WARNING	SYMBOL:		
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HAZARD STATEMENTS:

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Prevention:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

Response:

IF ON SKIN: Wash with soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see supplemental first aid instructions on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists, get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Collect spillage.

Disposal: Dispose of contents and container as instructed in Section 13.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Bisphenol-A-(epichlorhydrin) and epoxy resin	25068-38-6	80-90
[[[(2-Ethylhexyl)oxy]methyl]oxirane	2461-15-6	10-20

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Seek medical attention. Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing.

SKIN: Seek medical attention. Wash hands and exposed skin with soap and plenty of water.

INHALATION:

Seek medical attention. Move exposed to fresh air. Give artificial respiration, if necessary. If breathing is difficult, give oxygen. Loosen clothing and place exposed in a comfortable position.

INGESTION:

Seek medical attention. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Irritation. Shortness of breath. Headache. Nausea. Dizziness.
2461-15-6: Inhalation – May cause respiratory irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Thermal decomposition can lead to release of irritating gases and vapors.

SPECIFIC FIRE-FIGHTING METHODS:

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

ENVIRONMENTAL PRECAUTIONS:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

METHODS & MATERIALS FOR CONTAINMENT & CLEAN UP:

Soak up with inert absorbent material and dispose of as hazardous waste. Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Always obey local regulations. If necessary, use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable, closed containers for disposal.

7. Handling and Storage

SAFE HANDLING:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

SAFE STORAGE & INCOMPATIBILITIES:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS:

No applicable occupation exposure limits.

ENGINEERING CONTROLS:

Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Face shield (8-inch minimum) with tightly fitting safety goggles are appropriate eyewear. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN PROTECTION: Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

RESPIRATORY PROTECTION: Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary, use NIOSH-approved breathing equipment.

GENERAL HYGIENIC MEASURES: Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before re-wearing, wash contaminated clothing.

9. Physical & Chemical Properties

Appearance:		Flammability(solid/gas):	Not determined.
Physical State/Color:	Not determined.	Explosive Limit – lower (%):	Not determined.
Odor:	Not determined.	Explosive Limit – upper (%):	Not determined.
Odor Threshold:	Not determined.	Vapor Pressure:	Not determined.
pH:	Not determined.	Vapor Density:	Not determined.
Melting/Freezing Point:	Not determined.	Relative Density:	Not determined.
Boiling Point/Range:	Not determined.	Solubility:	
Partition Coeff (n-octanol/water):	Not determined.	Auto-Ignition Temperature:	Not determined.
Viscosity(kinematic & dynamic):	Not determined.	Decomposition Temperature:	Not determined.
Density:	Not determined.	Evaporation Rate:	Not determined.
		Flash Point (closed cup):	Not determined.

10. Stability & Reactivity Information

REACTIVITY:

Nonreactive under normal conditions.

CHEMICAL STABILITY:

Stable under normal conditions.

POSSIBLE HAZARDOUS REACTIONS:

None under normal processing

INCOMPATIBLE MATERIALS:

Acids, bases, oxidizing agents.

CONDITIONS TO AVOID:

Incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

25068-38-6: Strong oxidizing agents, acids, amines, bases.

11. Toxicological Information**ACUTE TOXICITY:**

Oral: 25068-38-6: LD50 Oral – rat- 13,600 mg/kg

Oral: 2461-15-6: LD50 Oral – rat – 7,800 mg/ kg

CHRONIC TOXICITY:

No additional information.

CORROSION IRRITATION:

No additional information.

SENSITIZATION:

May cause skin sensitization in some individuals.

STOT (Single Target Organ):

2461-15-6: Inhalation – May cause respiratory irritation.

NUMERICAL MEASURES:

No additional information.

CARCINOGENICITY:

No additional information.

MUTAGENICITY:

No additional information.

REPRODUCTIVE TOXICITY:

No additional information.

12. Ecological Information**ECOTOXICITY:**

2461-15-6: Id50 – Carassius auratus (goldfish) – 14 mg/l – 24 h

PERSISTENCE AND DEGRADABILITY:

25068-38-6: Result – According to the results of tests of biodegradability, this product is not readily biodegradable.

13. Disposal Consideration

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulator entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

14. Transportation Information**UN NUMBER:**

1993

UN PROPER SHIPPING NAME:

Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <=700)).

TRANSPORT HAZARD CLASS(ES):

9: Miscellaneous dangerous substances and article.

PACKING GROUP:

III

**15. Regulatory Information****US FEDERAL REGULATIONS:****SARA 311/312 (Specific toxic chemical listings):** Acute.**SARA 313 (Specific toxic chemical listings):** None of the ingredients are listed.**RCRA (hazardous waste code):** None of the ingredients are listed.**TSCA (Toxic Substances Control Act):** All ingredients are listed.**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):** None of the ingredients are listed.**PROPOSITION 65 (California):****Chemicals known to cause cancer:** None of the ingredients are listed.**Chemical known to cause reproductive toxicity for females:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.**CANADA:****Canadian Domestic Substances List (DSL):** All ingredients are listed.**Canadian NPRI Ingredient Disclosure list (limit 0.1%):** None of the ingredients are listed.**Canadian NPRI Ingredient Disclosure list (limit 1%):** None of the ingredients are listed.**16. Other Information****N/A = Not Applicable; N/D = Not Determined**

NFPA	Health Hazards: 2	Flammability: 1	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 2	Flammability: 1	Physical hazards: 0	Personal protection: X

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:	2112	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	RAPID SET PART B	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Low Temperature Epoxy Binder	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Acute toxicity, oral: Category 4 Skin corrosion: Category 1B Serious eye damage: Category 1 Reproductive toxicity: Category 2 Acute aquatic toxicity: Category 1 Chronic aquatic toxicity: Category 1	SIGNAL WORD: DANGER	SYMBOL:				
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HAZARD STATEMENTS:

Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Suspected of damaging fertility or the unborn child.
Very toxic to aquatic life with long lasting effect.

PRECAUTIONARY STATEMENTS:

Prevention:

Keep container tightly closed.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Response:

IF ON SKIN: Wash with soap and water
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store in a well-ventilated place. Protect from sunlight.

Disposal: Dispose of contents and container as instructed in Section 13.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Nonyl phenol	84852-15-3	50-70
Amino ethyl piperazine	140-31-8	3-6
Polyoxypropylene amine	9046-10-0	30-40

4. First Aid Measures

EMERGENCY OVERVIEW

EYES:

SKIN: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

INHALATION:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

INGESTION:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

The most important known symptoms and effects are described in the labeling (see Section 2).

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Carbon oxides.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Use personal protective equipment. Avoid breathing vapours, mists or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS:

Prevent further leakage or spillage, if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

METHODS & MATERIALS FOR CONTAINMENT & CLEAN UP:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage

SAFE HANDLING:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see Section 2.

SAFE STORAGE & INCOMPATIBILITIES:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS:

No applicable occupational exposure limits.

ENGINEERING CONTROLS:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US_ or EN 166(EU).

SKIN PROTECTION: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact material: Nitrile rubber.

Minimum layer thickness: 0.4 mm.

Break through time: 480 min.

Material tested: KCL 730/Aldrich Z677442, Size M.

Splash contact material: Nitrile rubber.

Minimum layer thickness: 0.2 mm.

Break through time: 60 min.

Material tested: KCL 743/Aldrich Z677388, size M.

Test method: EN374. If used in solution or mixed with other substances and under conditions which differ from EN 374, contact the supplier of CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

RESPIRATORY PROTECTION: Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical & Chemical Properties

Appearance:	Flammability(solid/gas):
Physical State/Color:	Explosive Limit – lower (%):
Odor:	Explosive Limit – upper (%):
Odor Threshold:	Vapor Pressure:
pH:	Vapor Density:
Melting/Freezing Point:	Relative Density:
Boiling Point/Range:	Solubility:
Partition Coeff (n-octanol/water):	Auto-Ignition Temperature:
Viscosity(kinematic & dynamic):	Decomposition Temperature:
Density:	Evaporation Rate:
	Flash Point (closed cup):

10. Stability & Reactivity Information

REACTIVITY:

No data available.

CHEMICAL STABILITY:

Stable under recommended storage conditions.

POSSIBLE HAZARDOUS REACTIONS:

No data available.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

CONDITIONS TO AVOID:

Excessive heat.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information

ACUTE TOXICITY:

Oral: LD50 oral – rat – male and female – 1,412 mg/kg

CHRONIC TOXICITY:

No additional information.

CORROSION IRRITATION:

No additional information.

SENSITIZATION:
No additional information.

STOT (single target organ):
No additional information.

NUMERICAL MEASURES:
No additional information.

CARCINOGENIC INFORMATION:
No additional information.

MUTAGENICITY:
No additional information.

REPRODUCTIVE TOXICITY:
No additional information.

12. Ecological Information

ECOTOXICITY:
 Toxicity to fish: flow-through test LC50 – *Lepomis macrochirus* – 0.209 mg/l – 96 h
 Toxicity to daphnia and other aquatic invertebrates: Semi-static test EC50 – *Daphnia magna* (water flea) – 0.0844 mg/l – 48 h
 Toxicity to algae: Static test EC50 – *Selenastrum capricornutum* (green algae) – 0.33 mg/l – 72 h

13. Disposal Consideration

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. Transportation Information

UN NUMBER:
N/A – Transported in limited quantities.

UN PROPER SHIPPING NAME:
N/A

PACKING GROUP:
N/A

15. Regulatory Information

US FEDERAL REGULATIONS:
SARA 311/312 (Specific toxic chemical listings): None of the ingredients is listed.
SARA 313 (Specific toxic chemical listings): None of the ingredients is listed.
RCRA (hazardous waste code): None of the ingredients is listed.
TSCA (Toxic Substances Control Act): All ingredients are listed.
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): None of the ingredients is listed.

PROPOSITION 65 (California):
Chemicals known to cause cancer: None of the ingredients is listed.
Chemical 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.

CANADA:
Canadian Domestic Substances List (DSL): All ingredients are listed.
Canadian NPRI Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed.
Canadian NPRI Ingredient Disclosure list (limit 1%): None of the ingredients is listed.

16. Other Information

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 3	Flammability: 1	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 3	Flammability: 1	Physical hazards: 0	Personal protection: X

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