

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 01/15/2019
Revision date: 1/3/2022
Version: LAM-251-HT-2022a

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PRO-SET® LAM-251-HT Hardener
Product code : LAM-251-HT, LAM-251-HT-1, LAM-251-HT-2, LAM-251-HT-3, LAM-251-HT-4, LAM-251-HT-5, LAM-251-HT-6.
Chemical Family : Polyamine-imidazole mixture.

1.2. Recommended use and restrictions on use

Recommended use : Curing agent for laminating epoxy resins

1.3. Supplier

Manufacturer	Distributor
Gougeon Brothers, Inc 100 Patterson Ave. Bay City, MI 48706 - U.S.A. T 888-377-6738 or 989-684-7286 www.prosetepoxy.com	

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300
CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Oral)
Acute Tox. 3 (Dermal)
Acute Tox. 2 (Inhalation)
Skin Corr. 1A
Eye Dam. 1
Skin Sens. 1
Carc. 2
Aquatic Acute 2
Aquatic Chronic 2

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Harmful if swallowed.
Toxic in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Precautionary statements (GHS)	Fatal if inhaled. Suspected of causing cancer. Toxic to aquatic life with long lasting effects. : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, vapours, spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, protective clothing, eye protection, face protection. Wear respiratory protection. If exposed or concerned: Get medical advice/attention. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Call a poison center or doctor if you feel unwell. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

41% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Cyclohexanamine, 4,4'-methylenebis[2-methyl-	Cyclohexanamine, 4,4'-methylenebis[2-methyl-Cyclohexylamine, 4,4'-methylenebis[2-methyl]- / 2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) / 4,4'-Methylenebis(2-methylcyclohexaneamine) / 2,2'-Dimethyl-4,4'-methylenebis(cyclohexanamine) / 4,4'-Methylenebis(2-methylcyclohexylamine) / 4,4'-Methylenebis(2-methylcyclohexylamine) / 4,4'-Diamino-3,3'-dimethyldicyclohexylmethane / 3,3'-Dimethyl-4,4'-diaminodicyclohexylmethane / Dimethyl-4,4'-methylenebis(cyclohexylamine), 2,2'- / 2,2'-Dimethyl-4,4'-methylenebis(cyclohexan-1-ylamine) / 2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) / Bis(4-amino-3-methylcyclohexyl)methane	CAS-No.: 6864-37-5	80 – 100
Isophoronediamine	Isophoronediamine	CAS-No.: 2855-13-2	10 – 30

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

	Isophorone diamine / 3-(Aminomethyl)-3,5,5-trimethylcyclohexylamine / 3-Aminomethyl-3,5,5-trimethylcyclohexylamine / Isophoronediamine / 1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane / Cyclohexylamine, 3-aminomethyl-3,5,5-trimethyl- / 5-Amino-1,3,3-trimethylcyclohexanemethanamine / isophorone diamine		
1H-Imidazole, 2-ethyl-4-methyl-	1H-Imidazole, 2-ethyl-4-methyl- 2-Ethyl-4-methylimidazole / Imidazole (1H), 2-ethyl-4-methyl- / 1H-Imidazole, 2-ethyl-5-methyl- / 2-Ethyl-5-methyl-1H-imidazole	CAS-No.: 931-36-2	1 – 10
4-Methylimidazole	4-Methylimidazole Imidazole (1H), 4-methyl- / Imidazole, 4-methyl- / 1H-Imidazole, 4-methyl- / Methylimidazole, 4- / 1H-Imidazole, 5-methyl- / 4-Methyl-1H-imidazole / 4-methylimidazole	CAS-No.: 822-36-6	0.1 – 1

HMIRA registry number : #10410

HMIRA registration date : 9/23/2016

Comments : The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold. Refer to Section 15 for additional information regarding this CBI claim.

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
- First-aid measures after skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects (acute and delayed)

- Potential adverse human health effects and symptoms : Fatal if inhaled. Toxic in contact with skin. Harmful if swallowed.
- Symptoms/effects after inhalation : Fatal if inhaled. May cause respiratory tract irritation.
- Symptoms/effects after skin contact : Toxic in contact with skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/effects after ingestion : Harmful if swallowed. May cause stomach distress, nausea or vomiting.
- Chronic symptoms : Suspected of causing cancer.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides. Amines. Ammonia.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

6.3. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Do not absorb in sawdust, paper, cloth or other combustible absorbents.

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, vapours, spray. Do not swallow. Handle and open container with care. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

Hygiene measures : Take off contaminated clothing and wash it before reuse. Wash hands before eating, drinking, or smoking. Contaminated work clothing should not be allowed out of the workplace.

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in dry, cool, well-ventilated area. Protect from moisture. Storage temperature : 40°F (4°C) - 90°F (32°C).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PRO-SET® LAM-251-HT Hardener
No additional information available
Cyclohexanamine, 4,4'-methylenebis[2-methyl- (6864-37-5)
No additional information available
Isophoronediamine (2855-13-2)
No additional information available
1H-Imidazole, 2-ethyl-4-methyl- (931-36-2)
No additional information available
4-Methylimidazole (822-36-6)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear chemically resistant protective gloves.
Eye protection:
Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
Wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : No data available.
Colour : Amber
Odour : Ammonia
Odour threshold : No data available

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

pH	: 11 – 11.6 (estimated based on ingredient data)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 300 °F (204°C) estimated based on similar product
Flash point	: > 200 °F (93°C) estimated based similar product
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: < 1 mm Hg
Relative vapour density at 20 °C	: No data available
Relative density	: 0.94
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 42.5 mm ² /s
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

VOC content	: 0.01 g/l (0.00 lbs/gal)
Bulk density	: 7.83 lb/gal (0.94 kg/L)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an epoxy resin will cause irreversible polymerization with significant heat buildup and pressure.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Acids. Oxidizing materials. Halogenated compounds. Sodium hypochlorite. Acid chlorides. Acid anhydrides. Nitrosating agents. External heating or self-heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Nitrogen oxides. Amines. Ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Acute toxicity (inhalation) : Fatal if inhaled.

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Cyclohexanamine, 4,4'-methylenebis[2-methyl-	6864-37-5	320-460 mg/kg	>200 mg/kg	0.42 mg/L; 4h (aerosol/mist)
Isophoronediamine	2855-13-2	1030 mg/kg	>2000	>5.01 mg/l 4h mist
1H-Imidazole, 2-ethyl-4-methyl-	931-36-2	731-1000 mg/kg	>400 mg/kg	No data
4-Methylimidazole	822-36-6	350-751 mg/kg	440 mg/kg	No data

Skin corrosion/irritation : Causes severe skin burns.
pH: 11 – 11.6 (estimated based on ingredient data)

Serious eye damage/irritation : Causes serious eye damage.
pH: 11 – 11.6 (estimated based on ingredient data)

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Suspected of causing cancer.

4-Methylimidazole (822-36-6)	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

4-Methylimidazole (822-36-6)	
STOT-single exposure	May cause respiratory irritation.

: Not classified.

STOT-repeated exposure

Isophoronediamine (2855-13-2)	
LOAEL (oral, rat, 90 days)	160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified.

PRO-SET® LAM-251-HT Hardener	
Viscosity, kinematic	42.5 mm ² /s

Potential adverse human health effects and symptoms : Fatal if inhaled. Toxic in contact with skin. Harmful if swallowed.

Symptoms/effects after inhalation : Fatal if inhaled. May cause respiratory tract irritation.

Symptoms/effects after skin contact : Toxic in contact with skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Chronic symptoms : Suspected of causing cancer.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Cyclohexanamine, 4,4'-methylenebis[2-methyl- (6864-37-5)	
EC50 - Crustacea [1]	15.2 mg/l (Exposure time: 48 h - Species: Daphnia magna Straus)
Isophoronediamine (2855-13-2)	
LC50 - Fish [1]	110 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	14.6 – 21.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])
LOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

4-Methylimidazole (822-36-6)	
EC50 - Crustacea [1]	180 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Ingredient	CAS#	Ecotoxicity
Cyclohexanamine, 4,4'-methylenebis[2-methyl-	6864-37-5	Acute Aquatic Cat. 2; Chronic Aquatic Cat. 2
Isophoronediamine	2855-13-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
1H-Imidazole, 2-ethyl-4-methyl-	931-36-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
4-Methylimidazole	822-36-6	Not classified

12.2. Persistence and degradability

PRO-SET® LAM-251-HT Hardener	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

PRO-SET® LAM-251-HT Hardener	
Bioaccumulative potential	Not established.

Cyclohexanamine, 4,4'-methylenebis[2-methyl- (6864-37-5)	
Partition coefficient n-octanol/water	2.51 (at 25 °C)

Isophoronediamine (2855-13-2)	
Partition coefficient n-octanol/water	0.79 (at 23 °C)

4-Methylimidazole (822-36-6)	
Partition coefficient n-octanol/water	0.35 (at 25 °C)

12.4. Mobility in soil

PRO-SET® LAM-251-HT Hardener	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No. (DOT/TDG) : UN2922
UN-No. (IMDG) : 2922
UN-No. (IATA) : 2922

14.2. UN proper shipping name

Proper Shipping Name (DOT/TDG) : Corrosive liquids, toxic, n.o.s. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-)
Proper Shipping Name (IMDG) : CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-) - MARINE POLLUTANT
Proper Shipping Name (IATA) : Corrosive liquid, toxic, n.o.s. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-)

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

14.3. Transport hazard class(es)

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

Class (DOT/TDG) : 8 (6.1)

Hazard labels (DOT/TDG) : 8, 6.1

Marine Pollutant : No



IMDG

Transport hazard class(es) (IMDG) : 8 (6.1)

Danger labels (IMDG) : 8, 6.1

Marine Pollutant : Yes



IATA

Transport hazard class(es) (IATA) : 8 (6.1)

Danger labels (IATA) : 8, 6.1

Marine Pollutant : Yes



14.4. Packing group

Packing group (DOT/TDG) : II

Packing group (IMDG) : II

Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) inventory.

PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

4-Methylimidazole (822-36-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Canada WHMIS Confidential Business Information (CBI): The HMIRA number issued for this CBI claim is #10410. The date of filing is 2016-09-23

15.2. International regulations

No additional information available

15.3. US State regulations

⚠ WARNING: This product can expose you to 4-Methylimidazole, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

4-Methylimidazole (822-36-6)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	29 µg/day

Isophoronediamine (2855-13-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

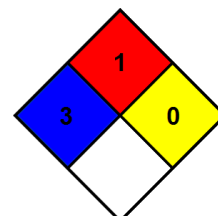
According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 01/03/2022
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Full text of H-statements	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Sens. 1	Skin sensitisation, Category 1

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



PRO-SET® LAM-251-HT Hardener

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

SDS update.

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2021 (B&W)

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.