SWING PAINTS LIMITED 2100 ST PATRICK STREET MONTREAL, QC H3K 1B2 (514) 932-2157

PRODUCT: EPOXY COATING CODE: 1557A

1. IDENTIFICATION

PRODUCT IDENTIFIERCIRCA 1850 NU-LUSTRE 57 PART A

PRODUCT CODE 155701, 155704

RECOMMENDED USE FINISH

SUPPLIER SWING PAINTS LIMITED

2100 ST PATRICK STREET MONTREAL, QC H3K 1B2

CANADA 514-932-2157

EMERGENCY PHONE NO 514-932-2157 8:00 - 17:00 EST

2. HAZARDOUS IDENTIFICATION

Hazardous Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Hazard pictograms





Signal Word: Warning

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

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray Wash skin thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves/ protective clothing/ eye protection/ face protection

Response

IF ON SKIN (or hair). Rinse skin with water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If skin irritation or rash occurs: Get medical advice/ attention

If eye irritation persists: Get medical advice/ attention

Take off contaminated clothing and wash it before reuse

Storage

Store at room temperature

Disposal

Dispose of contents/container in accordance with local/regional/national regulations

Other Information

No additional remark

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	WT %
2,2-Bis(glycidyloxyphenyl)Propane Resin	25085-99-8	85-100
Alkyl (C12-C14) Glycidyl Ether Proprietary	68609-97-2	0-15 0-15

4. FIRST-AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. Get medical attention after significant exposure.

Eve contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink a small amount of water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention if adverse health effects persist or are severe.

Self-protection of the first aider

In the event of body contact with molten material, immediately cool with running water; do not attempt to remove material from skin. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed:

No additional remark

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

CAUTION: Use of water spray or high volume water jet when fighting fire may spread fire.

Special hazards arising from the substance or mixture

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Smoke may contain the original material in addition to combustion products of varying compositions which may be toxic and/or irritating.

Hazardous combustion products

Oxides of carbon. Phenolics. Smoke.

Special protective equipment for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Do not ouch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Environmental precautions

Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of material according to local / national regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe vapors or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.

Conditions for safe storage, including any incompatibilities

Store in original container. Keep in a drt, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

CHEMICAL NAME	EXPOSURE LIMIT ACGIH
2,2-Bis(glycidyloxyphenyl)Propane Resin	
25085-99-8	
Alkyl (C12-C14) Glycidyl Ether	
68609-97-2	
Proprietary	

Consult local authorities for recommended exposure limits.

Appropriate engineering controls

Engineering controls

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual protection measures

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self- contained breathing apparatus must be used.

General hygiene considerations

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state Liquid

Colour Clear to yellow

Odour Mild

Odour threshold No data available

pH Not applicable
 Melting point / freezing point No data available
 Boiling point No data available

Flash point >180°C / 355°F Tag Closed cup

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Relative vapor density
No data available
No data available
No data available

Specific gravity 1.1

Water solubility

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Explosive properties

No data available

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

May generate considerable heat when mixed with part B in large amounts (> 1 litre), or in insulated containers.

Hazardous polymerization

Will not occur.

Conditions to avoid

Avoid excessive heat. Avoid unintended contact with amines.

Incompatible materials

Oxidizing materials, strong acids, strong bases.

Hazardous decomposition products

No data available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

No information available.

Information on toxicological effects

No information available.

Numerical measures of toxicity

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
2,2-Bis(glycidyloxyphenyl)Propane Resin 25085-99-8	>5,000 mg/kg (Rabbit)	>20,000 mg/kg (Rabbit)	Not Available
Alkyl (C12-C14) Glycidyl Ether 68609-97-2	Not Available	Not Available	0.2 mg/L (Rat), 4h
Proprietary			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

May causes skin irritation.

Serious eye damage/eye irritation

May cause eye irritation.

Respiratory or skin sensitization

May cause an allergic reaction.

Germ cell mutagenicity

Classification based on data available for ingredients.

Carcinogenicity

Classification based on data available for ingredients.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
2,2-Bis(glycidyloxyphenyl)Propane Resin 25085-99-8	Not available	Not available	Not available	Not available
Alkyl (C12-C14) Glycidyl Ether 68609-97-2	Not available	Not available	Not available	Not available
Proprietary				

Reproductive Toxicity

Not classified based on available information.

Specific target organ systemic toxicity - single exposure

No information available.

Specific target organ systemic toxicity - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

CHEMICAL NAME	Ecotoxicity – Freshwater Algae (EC50)	Ecotoxicity - Fish Species (LC50)	Toxicity - Microorganisms	Ecotoxicity - Crustacea (EC50)
2,2- Bis(glycidyloxyphenyl)Propane Resin 25085-99-8	11 mg/L, 72h static (Scenedesmus capricornutum)	2 mg/L, 96h semi (Oncorhynchus mykiss)	Not available	1.8 mg/L, 48h static (Daphnia magna)
Alkyl (C12-C14) Glycidyl Ether 68609-97-2	500 mg/L, 72h static (Pseudokirchneriella subcapitata)	>5,000 mg/L, 96h semi (Oncorhynchus mykiss)	Not available	Not available
Proprietary				

Persistence and degradability

No information available.

Biodegradability

No information available.

Other adverse effects:

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste in accordance with environmental legislation. Should not be released into the environment. Dispose of in accordance with local regulations.

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number UN 3066
Shipping name PAINT
Class 8
Packing Group III
Marine pollutant Yes

DOT (U.S.)

UN Number UN 3066
Shipping name PAINT
Class 8
Packing Group III
Marine pollutant Yes

15. REGULATORY INFORMATION

Canadian Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. OTHER INFORMATION

PREPARED BY...... Regulatory Affairs
PREPARATION DATE...... June 1, 2018

Swing Paints expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Swing Paints makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Swing Paints' control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

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End of Safety Data Sheet

SWING PAINTS LIMITED 2100 ST PATRICK STREET MONTREAL, QC H3K 1B2 (514) 932-2157

PRODUCT: EPOXY COATING CODE: 1557B

1. IDENTIFICATION

PRODUCT IDENTIFIERCIRCA 1850 NU-LUSTRE 57 PART B

PRODUCT CODE 155701, 155704

RECOMMENDED USE FINISH

SUPPLIER SWING PAINTS LIMITED

2100 ST PATRICK STREET MONTREAL, QC H3K 1B2

CANADA 514-932-2157

EMERGENCY PHONE NO 514-932-2157 8:00 - 17:00 EST

2. HAZARDOUS IDENTIFICATION

Hazardous Classification of the substance or mixture

Corrosive to metals	Category 1
Acute toxicity - Oral	Category 3
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Hazard pictograms



Signal Word: Danger

Hazard statements

May be corrosive to metals
Causes serious eye damage
Causes severe skin burns
Suspected of damaging fertility or the unborn child
Toxic if swallowed
Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

Do not handle until all safety precautions have been read and understood Wear protective gloves/ protective clothing/ eye protection/ face protection Avoid release to the environment Wash skin thoroughly after handling Keep only in original container

Response

IF exposed or concerned: Call a POISON CENTER or doctor

Specific treatment (see first aid instructions on label)

Take off immediately all contaminated clothing and wash it before reuse

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF exposed or concerned: Get medical advice/ attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Storage

Store locked up

Keep cool

Store in a well-ventilated place. Keep container tightly closed

Disposal

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

Other Information

None available

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	WT %
Trimethylolpropane tris[poly(propylene glycol), amine terminated] ether Para-Nonylphenol Proprietary	39423-51-3 84852-15-3	25-75 25-75 <20

4. FIRST-AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. Get medical attention after significant exposure.

Eye contact

Rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. Get medical attention if irritation develops and persists.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed:

See Section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

Special hazards arising from the substance or mixture

None known.

Hazardous combustion products

Oxides of carbon. Smoke.

Special protective equipment for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with noncombustible absorbent material, and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Take precautionary measures against static discharge. Follow standard hygiene measures when handling chemical products.

Conditions for safe storage, including any incompatibilities

Store in original container. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

CHEMICAL NAME	EXPOSURE LIMIT ACGIH
Trimethylolpropane tris[poly(propylene glycol), amine terminated] ether 39423-51-3	
Para-Nonylphenol 84852-15-3	
Proprietary	

Consult local authorities for recommended exposure limits.

Appropriate engineering controls

Engineering controls

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual protection measures

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Liquid

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self- contained breathing apparatus must be used.

General hygiene considerations

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state

ColourClear to yellowOdourAmine-likeOdour thresholdNo data availablepHNot applicableMelting point / freezing pointNo data availableBoiling pointNo data available

Flash point >95°C / 203°F Tag Closed cup

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Relative vapor density
No data available
No data available
No data available

Specific gravity 1.0

Water solubility

No data available

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Explosive properties

No data available

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

No additional remark.

Hazardous polymerization

Will not occur.

Conditions to avoid

No additional remark.

Incompatible materials

Acids, oxidizing agents.

Hazardous decomposition products

Oxides of carbon, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

May be harmful if swallowed.

Information on toxicological effects

No information available.

Numerical measures of toxicity

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Trimethylolpropane tris[poly(propylene glycol), amine terminated] ether 39423-51-3	50-200 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not available
Para-Nonylphenol 84852-15-3	1410 mg/kg (Rat)	Not available	Not available
Proprietary	Not available	Not available	Not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Prolonged exposure may cause skin irritation.

Serious eye damage/eye irritation

Prolonged exposure may cause eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Classification based on data available for ingredients.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Trimethylolpropane tris[poly(propylene glycol), amine terminated] ether 39423-51-3	Not available	Not available	Not available	Not available
Para-Nonylphenol 84852-15-3	Not available	Not available	Not available	Not available
Proprietary	Not available	Not available	Not available	Not available

Reproductive Toxicity

Para-Nonylphenol is a suspected human reproductive toxicant.

Specific target organ systemic toxicity - single exposure

No information available.

Specific target organ systemic toxicity - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

CHEMICAL NAME	Ecotoxicity – Freshwater Algae (EC50)	Ecotoxicity - Fish Species (LC50)	Toxicity - Microorganisms	Ecotoxicity - Crustacea (EC50)
Trimethylolpropane tris[poly(propylene glycol), amine terminated] ether 39423-51-3	Not available	Not available	130.0 mg/L, 0.5h (Activated sludge)	13.0 mg/L, 48h (Daphnia magna)
Para-Nonylphenol 84852-15-3	0.056 mg/L, 72h (Pseudokirchneriella Subcapitata)	0.14 - 0.23 mg/L, 96h (Oncorhynchus mykiss) 0.14 mg/L, 96h (Pimephales promelas)	Not available	0.035 mg/L, 48h (Daphnia magna)
Proprietary	Not available	Not available	Not available	Not available

Persistence and degradability

No information available.

Biodegradability

No information available.

Other adverse effects:

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste in accordance with environmental legislation. Should not be released into the environment. Dispose of in accordance with local regulations.

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number UN 3066
Shipping name PAINT
Class 8
Packing Group III
Marine pollutant Yes

DOT (U.S.)

UN Number UN 3066
Shipping name PAINT
Class 8
Packing Group III
Marine pollutant Yes

15. REGULATORY INFORMATION

Canadian Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. OTHER INFORMATION

PREPARED BY...... Regulatory Affairs PREPARATION DATE...... June 1, 2018

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End of Safety Data Sheet