

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

PRODUCT: EPOXY ENAMEL**CODE: 8100A****1. IDENTIFICATION**

PRODUCT IDENTIFIER KLENK'S EPOXY ENAMEL PART A

PRODUCT CODE 810150, 810101, 814050, 814001, 815250, 815201, 815208, 819901

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**

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Carcinogenicity (Inhalation)	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1

Hazard pictograms**Signal Word: Danger****Hazard statements**

Flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
Suspected of causing cancer if inhaled
May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled

Precautionary Statements**Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use non-sparking tools
 Take action to prevent static discharges
 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
 Wash skin thoroughly after handling
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace
 Wear protective gloves/ protective clothing/ eye protection/ face protection

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: Immediately call a POISON CENTER/doctor
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
 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
 Do NOT induce vomiting
 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
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

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

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	WT %
Bisphenol-A-(Epichlorhydrin) Epoxy Resin	25068-38-6	40-50
Xylene, Mixture Of Isomers	1330-20-7	25-35
Ethylbenzene	100-41-4	5-10
1-Propoxypropanol	1569-01-3	2-5

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, 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 afterwards plenty of water. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.

Self-protection of the first aider

Remove all sources of ignition. 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. Avoid direct contact with skin. 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. Risk of serious damage to the lungs (by aspiration). Irritant effects and sensitizing effects. Aspiration may cause pulmonary edema, pneumonitis and cough. Respiratory disorder. Allergic reactions. Excessive lachrymation. Erythema. Dermatitis. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer if inhaled. May cause damage to organs through prolonged or repeated exposure if inhaled.

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 be inefficient.

Special hazards arising from the substance or mixture

Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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 non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Flammable. Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges. 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 problems or asthma, allergies, chronic or recurrent respiratory disease 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. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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
Bisphenol-A-(Epichlorhydrin) Epoxy Resin 25068-38-6	
Xylene, Mixture of Isomers 1330-20-7	150 ppm STEL 100 ppm TLV-TWA
Ethylbenzene	125 ppm STEL

100-41-4	20 ppm TLV-TWA
1-Propoxypropanol 1569-01-3	

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	Various
Odour	Epoxy-like
Odour threshold	No data available
pH	Not applicable
Melting point / freezing point	No data available
Boiling point	No data available
Flash point	25°C / 77°F Tag Closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Specific gravity	1.4
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Explosive properties	No data available
Oxidizing 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

Avoid excessive heat, open flames and all ignition sources.

Incompatible materials

No data available.

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

MIXTURE	ORAL LD50	DERMAL LD50	INHALATION LC50
Klenk's Epoxy Enamel Part A Calculated	Not Available	3176 mg/kg (Rabbit)	25.3 mg/L (Rat), 4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious 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
Bisphenol-A-(Epichlorhydrin) Epoxy Resin 25068-38-6	Not available	Not available	Not available	Not available
Xylene, Mixture of Isomers 1330-20-7	Not available	Not available	Not available	Not available
Ethylbenzene 100-41-4	Not available	Group 2B	Not available	Not available
1-Propoxypropanol 1569-01-3	Not available	Not available	Not available	Not available

Legend**IARC (International Agency for Research on Cancer)**

Group 2B – Possible Carcinogenic to Humans

Reproductive Toxicity

Not classified based on available information.

Specific target organ systemic toxicity - single exposure

May cause respiratory irritation.

Specific target organ systemic toxicity - repeated exposure

May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Aspiration hazard

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

CHEMICAL NAME	Ecotoxicity – Freshwater Algae (EC50)	Ecotoxicity - Fish Species (LC50)	Toxicity - Microorganisms	Ecotoxicity - Crustacea (EC50)
Klenk's Epoxy Enamel Part A	Not available	Not available	Not available	Not available

Persistence and degradability

No information available.

Biodegradability

No information available.

Partition coefficient

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 or weld containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number UN 1139
Shipping name COATING SOLUTION
Class 3
Packing Group III
Marine pollutant Not available

DOT (U.S.)

UN Number UN 1139
Shipping name COATING SOLUTION
Class 3
Packing Group III
Marine pollutant Not available

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

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PRODUCT: EPOXY ENAMEL**CODE: 8100B****1. IDENTIFICATION**

PRODUCT IDENTIFIER KLENK'S EPOXY ENAMEL PART B

PRODUCT CODE 810150, 810101, 814050, 814001, 815250, 815201, 815208, 819901

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**

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1A
Carcinogenicity (Inhalation)	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1

Hazard pictograms**Signal Word: Danger****Hazard statements**

Flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
Suspected of causing cancer if inhaled
May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled

Precautionary Statements**Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use non-sparking tools
 Take action to prevent static discharges
 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
 Wash skin thoroughly after handling
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace
 Wear protective gloves/ protective clothing/ eye protection/ face protection

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: Immediately call a POISON CENTER/doctor
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
 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
 Do NOT induce vomiting
 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
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

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

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	WT %
Xylene, Mixture Of Isomers	1330-20-7	35-45
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	25-35
Naphtha (petroleum), Light Aromatic	64742-95-6	10-20
Ethylbenzene	100-41-4	5-10
3-Butoxypropanol	5131-66-8	5-10
1-Propoxypropanol	1569-01-3	5-10
Butanol	71-36-3	1-2
Triethylenetetramine	112-24-3	0-1

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

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, 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.

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. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.

Self-protection of the first aider

Remove all sources of ignition. 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. Avoid direct contact with skin. 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. Risk of serious damage to the lungs (by aspiration). Irritant effects and sensitizing effects. Aspiration may cause pulmonary edema, pneumonitis and cough. Respiratory disorder. Allergic reactions. Excessive lachrymation. Erythema. Dermatitis. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer if inhaled. May cause damage to organs through prolonged or repeated exposure if inhaled.

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 be inefficient.

Special hazards arising from the substance or mixture

Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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 non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Flammable. Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges. 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 problems or asthma, allergies, chronic or recurrent respiratory disease 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. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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
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Xylene, Mixture of Isomers 1330-20-7	150 ppm STEL 100 ppm TLV-TWA
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 68410-23-1	
Naphtha (petroleum), Light Aromatic 64742-95-6	200 ppm TLV-TWA
Ethylbenzene 100-41-4	125 ppm STEL 20 ppm TLV-TWA
3-Butoxypropanol 5131-66-8	
1-Propoxypropanol 1569-01-3	
Butanol 71-36-3	20 ppm TLV-TWA
Triethylenetetramine 112-24-3	0.5 ppm TLV-TWA

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	Amber
Odour	Amine-like
Odour threshold	No data available
pH	Not applicable
Melting point / freezing point	No data available
Boiling point	No data available
Flash point	26°C / 79°F Tag Closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Specific gravity	0.9
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient	No data available

Autoignition temperature	No data available
Decomposition temperature	No data available
Explosive properties	No data available
Oxidizing 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

Avoid excessive heat, open flames and all ignition sources.

Incompatible materials

No data available.

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

MIXTURE	ORAL LD50	DERMAL LD50	INHALATION LC50
Klenk's Epoxy Enamel Part B Calculated	5000 mg/kg (Rat)	2500 mg/kg (Rabbit)	24 mg/L (Rat), 4h

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious 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
Xylene, Mixture of Isomers 1330-20-7	Not available	Not available	Not available	Not available
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 68410-23-1	Not available	Not available	Not available	Not available
Naphtha (petroleum), Light Aromatic 64742-95-6	Not available	Not available	Not available	Not available
Ethylbenzene 100-41-4	Not available	Group 2B	Not available	Not available
3-Butoxypropanol 5131-66-8	Not available	Not available	Not available	Not available
1-Propoxypropanol 1569-01-3	Not available	Not available	Not available	Not available

Butanol 71-36-3	Not available	Not available	Not available	Not available
Triethylenetetramine 112-24-3	Not available	Not available	Not available	Not available

Legend**IARC (International Agency for Research on Cancer)**

Group 2B – Possible Carcinogenic to Humans

Reproductive Toxicity

Not classified based on available information.

Specific target organ systemic toxicity - single exposure

May cause respiratory irritation.

Specific target organ systemic toxicity - repeated exposure

May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Aspiration hazard

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

CHEMICAL NAME	Ecotoxicity – Freshwater Algae (EC50)	Ecotoxicity - Fish Species (LC50)	Toxicity - Microorganisms	Ecotoxicity - Crustacea (EC50)
Xylene, Mixture Of Isomers 1330-20-7	11 mg/L, 72h (Pseudokirchneriella Subcapitata)	13.1 - 16.5 mg/L, 96h flow (Lepomis macrochirus) 13.5 - 17.3 mg/L, 96h (Oncorhynchus mykiss) 2.661 - 4.093 mg/L, 96h static (Oncorhynchus mykiss) 23.53 - 29.97 mg/L, 96h static (Pimephales promelas) 30.26 - 40.75 mg/L, 96h static (Poecilia reticulata) 7.711 - 9.591 mg/L, 96h static (Lepomis macrochirus) 13.4 mg/L, 96h flow (Pimephales promelas) 19 mg/L, 96h (Lepomis macrochirus) 780 mg/L, 96h semi-static (Cyprinus carpio) 780 mg/L, 96h (Cyprinus carpio)	Not available	0.6 mg/L, 48h (Gammarus lacustris) 3.82 mg/L, 48h (water flea)
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 68410-23-1	Not available	1 - 10 mg/L, 96h (Oncorhynchus mykiss)	Not available	Not available
Naphtha (petroleum), Light Aromatic 64742-95-6	2.6 - 2.9 mg/L, 72h (Pseudokirchneriella Subcapitata)	Not available	Not available	Not available
Ethylbenzene 100-41-4	Not available	Not available	Not available	Not available
3-Butoxypropanol 5131-66-8	Not available	Not available	Not available	Not available
1-Propoxypropanol 1569-01-3	Not available	Not available	Not available	Not available
Butanol 71-36-3	Not available	Not available	Not available	Not available
Triethylenetetramine 112-24-3	10 - 100 mg/L, 72h (Pseudokirchneriella Subcapitata)	>100 mg/L, 96h static (Pimephales promelas)	Not available	10 – 100 mg/L, 48h (Gammarus lacustris)

Persistence and degradability

No information available.

Biodegradability

No information available.

Partition coefficient

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 or weld containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number UN 1139
Shipping name COATING SOLUTION
Class 3
Packing Group III
Marine pollutant Not available

DOT (U.S.)

UN Number UN 1139
Shipping name COATING SOLUTION
Class 3
Packing Group III
Marine pollutant Not available

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