

## SAFETY DATA SHEET

 SDS No: 00126  
 Version: V01.1

**EPOXY-FIL CATALYST**  
**PRODUCT CODE: H-122**

Preparation Date: March 30, 2018

### 1. IDENTIFICATION

**Product identifier**
**Product Name:** EPOXY-FIL CATALYST

**Other means of identification**
**Product Code(s):** H-120

**Product type:** Liquid

**Synonyms:** None

**Relevant identified uses of the substance or mixture and uses advised against**
**Recommended Use:** Coating. Paints. Painting-related materials.  
 For Professional and Industrial Use Only

**Restricted Uses:** No information available

**Manufacturer /** Durafil Auto Technologies Inc.

**Supplier Identifier:** 1360 Blundell Road,  
 Mississauga, ON L4Y 1M5 Canada  
 Telephone: 905-896-7171

**Emergency Telephone Number:** 905-896-7171 (Monday to Friday 8 am - 5 pm EST, Canada)

**24 Hour Emergency Phone Number (CANUTEC): (613) 996-6666 or 1-888-226-8832**

### 2. HAZARDS IDENTIFICATION

**OSHA/HCS Status:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Classification of the substance or mixture**

GHS Classification	Category
Flammable Liquids	2
Skin Irritation	2
Serious Eye Damage/Eye Irritation	1
Skin Sensitization	1A
Carcinogenicity	2
Toxic to Reproduction (Unborn child)	2
Specific Target Organ Toxicity (Single Exposure) (Narcotic effects)	3
Specific Target Organ Toxicity (Repeated Exposure) (hearing organs)	2

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### GHS label elements

#### Hazard pictograms:



**Signal Word: Danger**

#### **Hazard Statements:**

Highly flammable liquid and vapor  
May form explosive peroxides  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause drowsiness and dizziness  
Suspected of damaging the unborn child  
May cause damage to organs through prolonged or repeated exposure:  
(hearing organs)

### Precautionary Statements

#### **Prevention:**

Obtain special instructions before use  
Read label 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.  
Use only outdoors or in a well ventilated area.  
Avoid breathing vapor  
Use explosion-proof electrical, ventilating, lighting, and all material-handling equipment  
Ground and bond container and receiving equipment  
Use only non-sparking tools  
Take precautionary measures against static discharges  
Do not breathe dust, fume, gas, mist, vapors, spray  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves, protective clothing, eye protection and face protection  
Wear respiratory protection  
If medical advice is needed, have product container or label at hand  
Wash hands thoroughly after handling  
Avoid release to the environment  
Do not eat, drink or smoke when using product  
Keep out of reach of children

#### **Response:**

IF exposed or concerned: Get medical attention.  
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical attention.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

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**PRODUCT CODE: H-122****Storage:**Store locked up  
Store in a well-ventilated place  
Keep cool  
Keep container tightly closed**Disposal:**Dispose of contents/container to hazardous or special waste collection point  
Dispose of contents and containers in accordance with local, regional, national and international regulations**Hazards not otherwise classified (HNOC) or not covered by GHS:**

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Hazardous reactions or instability may occur under certain conditions of storage or use. Emits toxic fumes when heated. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above recommended exposure limits causes headache, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling.

**Other information****Unknown acute toxicity:**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/mixture:** Mixture  
**Product name(s):** EPOXY-FIL CATALYST  
**Other means of identification:** None

**CAS number/other identifiers**

Chemical / Ingredient Name	CAS No.	Weight %	Synonyms
Fatty acids, C18-unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	68424-41-9	20 - 45	Not available
Tertiary butyl acetate	540-88-5	10 - 30	Not available
Acetone	67-64-1	5 - 15	Not available
Butanol, 1-	71-36-3	3 - 13	Not available
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	3 - 13	Not available
Bis(dimethylaminomethyl)phenol	71074-89-0	< 2	Not available
Triethylenetetramine	112-24-3	0.5 - 1.5	Not available

Any concentration shown as a range above is to protect confidentiality.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**4. FIRST AID MEASURES**

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

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**PRODUCT CODE: H-122****Description of necessary first aid measures****General advice:**

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

**Inhalation:**

Avoid inhalation of vapor or mist. Remove person to fresh air and keep comfortable for breathing. Keep person warm and at rest. If breathing difficulties persists, seek medical attention. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses, if present and easy to do. Seek medical advice. If eye irritation persists: seek medical attention.

**Skin contact:**

Take off all contaminated clothing immediately. Wash clothing before reuse. Wash exposed area thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Chemical burns must be treated promptly by a physician. In the case of skin irritation or allergic reactions see a physician.

**Ingestion:**

If swallowed, seek medical attention immediately and have product container or label at hand. Call a POISON CENTER OR PHYSICIAN. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting unless directed to do so by physician or poison control center. Clean mouth with water and drink afterwards plenty of water. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Keep person warm and at rest. Treat symptomatically. Get immediate medical advice/attention.

**Most important symptoms and effects, both acute and delayed****Potential acute health effects****Eye Contact:**

Causes serious eye damage.

**Inhalation:**

May cause respiratory irritation. Harmful if inhaled. May cause shortness of breath, intoxication, headache, nausea, vomiting, respiratory tract irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. May cause headache, dizziness, nausea, vomiting, breathing difficulties, confusion, and unconsciousness. Exposure to high vapor or mist concentrations may cause central nervous system depression. May cause drowsiness or dizziness. Symptoms of (CNS) depression include dizziness, headache, nausea, fatigue, vomiting and incoordination.

**Skin contact:**

Causes skin irritation. Defatting of the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Skin contact may cause skin sensitization. In case of skin irritation or allergic reactions see a physician.

**Ingestion:**

Harmful if swallowed. Can cause central nervous system (CNS) depression.

**Over-exposure signs and symptoms****Eye Contact:**

Adverse symptoms may include the following:  
pain or irritation, watering, redness

**Inhalation:**

Adverse symptoms may include the following:  
nausea or vomiting, headache, drowsiness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths, skeletal malformations

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**Skin contact:**

Adverse symptoms may include the following: irritation, redness, dryness, cracking, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations

**Ingestion:**

stomach pains, gastrointestinal distress

**Indication of any immediate medical attention and special treatment needed**

No data available on the product. See section 3 and 11 for hazardous ingredients found on the product. Seek professional medical attention for all over-exposures and/or persistent problems.

**Note to physicians:**

Treatment based on sound judgment of physician and individual reactions of patient. Call poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:**

No specific antidote

**Self-protection of the first-aider:**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information.

**5. FIRE-FIGHTING MEASURES****Extinguishing media****Suitable extinguishing media:**

Use dry chemical, Carbon dioxide (CO<sub>2</sub>), water spray (fog) or alcohol resistant foam

**Unsuitable extinguishing media:**

Do not use water jet

**Specific hazards arising from the substance or mixture:**

Highly flammable liquid and vapor. Isolate and restrict area access. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Fight fire from a safe distance and from a protected location. Containers exposed to intense heat from fires should be cooled with water spray to prevent vapor pressure build-up which could result in container rupture. The vapor/gas is heavier than air and will spread along the ground. This product can produce flammable vapors which may travel to a source of ignition and flash back

**Hazardous combustion products:**

Decomposition products may include the following materials: ammonia, nitric acid, carbon dioxide, carbon monoxide, nitrogen oxides

**Special protective actions for fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from the fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters:**

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Dike and collect water used to fight fire. Do not allow run-off from firefighting to enter public sewer systems or public waterways.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****For non-emergency personnel:**

No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin, eyes or clothing. Ensure

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adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not breathe vapor or mist. Eliminate all sources of ignition. Take precautionary measures against static discharges. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Keep people away from and upwind of spill/leak. Beware of vapors accumulating to form explosive concentrations. All equipment used when handling the product must be grounded. See Section 8 for more information.

**For emergency responders:**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Avoid release to the environment. Refer to protective measures listed in Sections 7 and 8. See Section 12 for additional Ecological information. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up****Small spill:**

Prevent further leakage or spillage if safe to do so. Do not breathe vapors. Do not touch or walk through spilled material. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Take action to prevent static discharge. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

**Large spill:**

Prevent further leakage or spillage if safe to do so. Ventilate area. Do not breathe vapors. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Approach release from up-wind. Prevent entry into sewers, water courses, basements or confined areas. Do not touch or walk through spilled material. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The contaminated area should be cleaned immediately with a suitable decontaminant. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**Special provision:**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. Contaminated absorbent material may pose the same hazard as the spilled product. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities with local regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling****Protective measures:**

Use appropriate personal protective equipment (see Section 8). Observe label precautions. Handle and open containers with care. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Take precautionary measures against electrostatic discharges. Ground and bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use. DO NOT handle or store near open flame, heat, or other sources of ignition. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep containers closed when not in use. Protect against physical damage. Do not reuse container. Do not apply to hot surfaces. Sealed containers should be protected against heat as this results in pressure build-up. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Close container after each use. Wash thoroughly after handling. See Section 10 for additional information.

**Special precautions:**

May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air and will burn when an ignition source is present. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all its parts. DO NOT handle or store near an open flame, heat, or other sources of ignition. Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces.

**Advice on general occupational hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

**Conditions for safe storage including any incompatibilities:**

Keep container tightly closed and sealed until ready for use. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. No smoking. Keep away from heat, sparks, open flames and hot surfaces. Store separately from oxidizing agents and strongly alkaline and strongly acidic materials. Store in accordance with local regulations. Store in a segregated and approved area. Store locked up. Do not store in unlabeled containers. See Section 10 for incompatible materials before handling or use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Do not store below the following temperature: 5°C (41°F).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Occupational exposure limits:**

Chemical / Ingredient Name	CAS No.	Alberta	British Columbia	Ontario	Quebec	Exposure Limit ACGIH	Immediately Dangerous to Life or Health-IDLH
Fatty acids, C18 unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	68424-41-9	Not Available	Not Available	Not Available	Not Available	Not Available	Not available
Tertiary butyl acetate	540-88-5	TWA: 200 ppm TWA: 950 mg/m <sup>3</sup>	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm TWA: 950 mg/m <sup>3</sup>	150 ppm STEL 50 ppm TLV-TWA	1500 ppm
Acetone	67-64-1	TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup> STEL: 750 ppm STEL: 1800 mg/m <sup>3</sup>	TWA: 250 ppm STEL: 500 ppm	TWA: 500 ppm STEL: 750 ppm	TWA: 500 ppm TWA: 1190 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 2380 mg/m <sup>3</sup>	500 ppm STEL 250 ppm TLV-TWA	2500 ppm
Butanol, 1- *	71-36-3	TWA: 20 ppm TWA: 60 mg/m <sup>3</sup>	TWA: 15 ppm	TWA: 20 ppm	TWA: 50 ppm TWA: 152 mg/m <sup>3</sup>	Not Available	Not available

**Continued, Occupational exposure limits:**

Chemical / Ingredient Name	CAS No.	Alberta	British Columbia	Ontario	Quebec	Exposure Limit ACGIH	Immediately Dangerous to Life or Health-IDLH
Tris-2,4,6-(dimethylamino-methyl) phenol	90-72-2	Not Available	Not Available	Not Available	Not Available	Not Available	Not available
Bis(dimethyl-aminomethyl) phenol	71074-89-0	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Triethylenetetra- mine *	112-24-3	Not Available	Not Available	TWAEV: 0.5ppm TWAEV: 3 mg/m <sup>3</sup>	Not Available	Not Available	Not Available

**Limits are 8 hours unless otherwise specified. Consult local authorities for provincial or state exposure limits.**

**Glossary:**

ACGIH	American Conference of Governmental Industrial Hygienists
Min.	Minutes
OEL	Occupational Exposure Limit
ppm	Parts Per Million
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
*	Can be absorbed through the skin

**Recommended monitoring procedures:**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls**

**Engineering controls:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof electrical, ventilating, lighting and motorized equipment. Use non-sparking tools. Ground and bond container and receiving equipment. Use proper ventilation to remove vapors, mist and fumes combined with NIOSH approved respirator.

**Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Do not let product enter drains.

**Individual protection measures**

**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash skin thoroughly with soap and water or use recognized skin cleanser. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Regular cleaning of equipment, work area and clothing recommended. Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes.



**Eye/face protection:**

Chemical splash goggles and face shield. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

**Hand protection:**

Appropriate chemical resistant gloves should be worn. Butyl rubber gloves. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility etc.) is noticed. Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

**Skin and body protection:**

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling the product. When there is a risk of ignition from static-electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overall, boots and gloves. Body protection must be chosen based on activity level and exposure.

**Other skin protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Respiratory protection:**

Do not breathe vapors or mists. 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Follow respirator manufacturer's directions for respirator use. Respirators must be used according a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Restrictions on use:**

Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product.

**General safety and hygiene considerations:**

Avoid contact with skin, eyes, or clothing. Always use protective clothing and equipment. Keep food and drink away from material and from area where material is being used. Smoking in area where this material is used is strictly prohibited. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Appearance**

Physical State	Liquid
Color	Gray, Black or White
Odor	Organic solvent

**Properties**

	<b>Values</b>
pH (waterborne systems only)	Not applicable
Melting point	No data available
Approximate Boiling point/range	> 36 °C / >96.8 °F
Flash point	No data available

Properties	Values	
Evaporation rate (Air=1)	Slower than Air	
Flammability (solid, gas)	No data available	
Lower and upper explosive (flammable) limits	Lower: No data available Upper: No data available	
Vapor pressure of principal solvent	~ 41.5 mmHg @ 25°C (Tertiary Butyl Acetate)	
Vapor density (Air = 1)	Heavier than air	
Relative density	0.936 - 0.941	
Density (kg / gal)	3.54 - 3.56	
Density (lbs / gal)	7.81 - 7.85	
Solubility	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
Percent Weight Water	0	
Percent Solids By Weight	46 ± 2	
VOC* Less exempt H-122 EPOXY-FIL Catalyst	(g/L) 281	(lbs/gal) 2.34
VOC, As applied Ready-To-Spray (RTS) with: EP-120/EP-120.B/EP-120.W Primer	(g/L) 246	(lbs/gal) 2.05

VOC less exempt (theoretical) and VOC as applied (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

**10. STABILITY AND REACTIVITY**

**Reactivity:**  
No data available.

**Chemical stability:**  
Stable under recommended storage and handling conditions (see Section 7).

**Possibility of hazardous reactions:**  
Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:**  
Avoid all sources of ignition: heat, sparks or open flames. High temperature and direct sunlight. When exposed to high temperatures may produce hazardous decomposition products. Avoid electrostatic discharge. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Segregate from Incompatible materials.

**Incompatible materials:**  
Keep away from the following materials to prevent strong exothermic reactions: organic acids, oxidizing agents, strong alkalis, strong acids

**Hazardous decomposition products:**  
Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

**11. TOXICOLOGICAL INFORMATION**

This mixture has not been tested for toxicological effects.

**Information on likely routes of exposure**

**Inhalation:**  
May cause respiratory irritation. May cause nervous system depression characterized by the following progressive steps:

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headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**Eye contact:**

Causes serious eye damage.

**Skin contact:**

May be absorbed through the skin. Causes skin irritation. May cause an allergic skin reaction. Repeated or prolonged contact may cause defatting and drying of the skin which may result in skin irritation and dermatitis. Skin irritation signs and symptoms may include a burning sensation, redness, swelling and blisters.

**Ingestion:**

May be harmful if swallowed. Can cause central nervous system (CNS) depression. Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

**Information on toxicological effects**

**Symptoms related to the physical, chemical and toxicological characteristics:**

Skin contact may aggravate existing skin disease. Prolonged and repeated contact with the skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Prolonged or high exposures may cause CNS effects.

**Numerical measures of toxicity**

**Acute toxicity**

**Unknown acute toxicity:**

There are no data available on the mixture itself. See Component Information below.

**Component Information:**

Chemical / Ingredient Name	CAS No.	Oral LD50	Dermal LD50	Inhalation LC50
Fatty acids, C18-unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	68424-41-9	Not Available	Not Available	Not Available
Tertiary butyl acetate	540-88-5	4100 mg/kg (Rat)	>2000 mg/kg (Rabbit)	13300 mg/m <sup>3</sup> (Rat) 4 h
Acetone	67-64-1	5800 mg/kg (Rat)	>15700 mg/kg (Rabbit)	50100 mg/m <sup>3</sup> (Rat) 8 h
Butanol, 1-	71-36-3	Not Available	>2000 mg/kg (Rabbit)	24 mg/L (Rat) 4h
Tris-2,4,6-(dimethylamino-methyl) phenol	90-72-2	Not Available	Not Available	Not Available
Bis(dimethyl-aminomethyl) phenol	71074-89-0	Not Available	Not Available	Not Available
Triethylenetetra-mine	112-24-3	Not Available	Not Available	Not Available

**Conclusion/Summary:**

There are no data available on the mixture itself.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Skin corrosion/irritation:**

Causes skin irritation. May cause an allergic skin reaction. Harmful if absorbed through the skin. Prolonged contact may cause severe irritation, with local discomfort or pain, and local redness or swelling.

**Serious eye damage/eye irritation:**

Cause eye damage.

**Respiratory or skin sensitization:**

May cause sensitization by inhalation. May cause sensitization by skin contact.

**Conclusion/Summary:**

There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Skin contact may aggravate existing skin disease. Repeated skin contact may cause dermal irritation, dryness and cracking. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Germ cell mutagenicity:**

No information available.

**Carcinogenicity:**

No information available on the mixture itself.

**Component Carcinogenicity:**

Chemical / Ingredient Name	ACGIH	IARC	NTP	OSHA
Fatty acids, C18-unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	Not Available	Not Available	Not Available	Not Available
Tert-Butyl Acetate	Not Listed	Not Listed	Not Available	Not Available
Acetone	A4	Not Listed	Not Available	Not Available
Butanol, 1-	Not Available	Not Available	Not Available	Not Available
Tris-2,4,6-(dimethylamino-methyl) phenol	Not Available	Not Available	Not Available	Not Available
Bis(dimethyl-aminomethyl) phenol	Not Available	Not Available	Not Available	Not Available
Triethylenetetra-mine	Not Available	Not Available	Not Available	Not Available

**Legend**

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

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A4 - Not Classifiable as a Human Carcinogen

**Reproductive toxicity:**

There are no data on the mixture itself. There are no data available on the mixture itself. High concentrations of acetone caused fetotoxic effects in laboratory animal tests.

**Specific target organ systematic toxicity - repeated exposure:**

May cause respiratory irritation. There are no data on the mixture itself.

**Target Organs:**

Contains material which may cause damage to the following organs:  
central nervous system (CNS), brain, kidneys, liver, adrenal gland, upper respiratory tract, skin, eyes and ears

**Aspiration Hazard:**  
No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

There are no data available on the mixture itself.

**Component Ecotoxicity:**

Chemical / Ingredient Name	Ecotoxicity - Fresh-water Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Fatty acids, C18-unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	Not Available	Not Available	Not Available	Not Available
Tert-Butyl Acetate	Not Available	296-362 mg/L LC50 (Pimephales promelas) 96 h flow-through	Not Available	Not Available
Acetone	Not Available	4.74 - 6.33 mg/L LC50 (Oncorhynchus mykiss) 96 h 6210 - 8120 mg/L LC50 (Pimephales promelas) 96 h static 8300 mg/L LC50 (Lepomis macrochirus) 96 h static	Not Available	EC50: 10294 - 17704 mg/L (48 h, Daphnia magna) EC50: 12600 - 12700 mg/L (48 h, Daphnia magna)
Butanol, 1-		100 mg/L LC50 (Lepomis macrochirus) 96 h 1730 - 1940 mg/L LC50 (Pimephales promelas) 96 h		EC50: 1983 mg/L (48 h, Daphnia magna)
Tris-2,4,6-(dimethylamino-methyl) phenol	Not Available	Not Available	Not Available	Not Available
Bis(dimethyl-aminomethyl) phenol	Not Available	Not Available	Not Available	Not Available
Triethylenetetra-mine	Not Available	Not Available	Not Available	Not Available

**Persistence and degradability**

No information available

**Bioaccumulation**

No information available for the mixture itself. See component information below.

**Component Information:**

Chemical / Ingredient Name	CAS No.	Partition Coefficient
Fatty acids, C18-unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	68424-41-9	NA
Tert-Butyl Acetate	540-88-5	1.38
Acetone	67-64-1	-0.24
Butanol, 1-	71-36-3	NA
Tris-2,4,6-(dimethylaminomethyl) phenol	90-72-2	NA
Bis(dimethyl-aminomethyl) phenol	71074-89-0	NA
Triethylenetetra-mine	112-24-3	NA

**Mobility in soil:**

No information available

**Other adverse effects:**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. The generation of waste should be avoided or minimized wherever possible. Do not reuse empty containers. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Waste packaging should not be recycled. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. This material and its container must be disposed of in a safe way. Should not be released into the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with local, regional, national and international regulations.

**14. TRANSPORT INFORMATION**

<b>Land Transport:</b>	<b>Canada TDG Classification</b>	<b>Land Transport:</b>	<b>U.S. DOT Classification</b>
<b>UN Number:</b>	1263	<b>UN Number:</b>	1263
<b>Proper Shipping Name:</b>	PAINT	<b>Proper Shipping Name:</b>	PAINT
<b>Transport Hazard Class:</b>	3	<b>Transport Hazard Class:</b>	3
<b>Packing Group:</b>	II	<b>Packing Group:</b>	II
<b>Marine Pollutant:</b>	Not available	<b>Marine Pollutant:</b>	Not available
<b>Air Transport:</b>	<b>ICAO/IATA Classification</b>	<b>Ocean Transport:</b>	<b>IMDG Classification</b>
<b>UN Number:</b>	1263	<b>UN Number:</b>	1263
<b>Proper Shipping Name:</b>	PAINT	<b>Proper Shipping Name:</b>	PAINT
<b>Hazard Class:</b>	3	<b>Hazard Class:</b>	3
<b>Packing Group:</b>	II	<b>Packing Group:</b>	II
<b>Marine Pollutant:</b>	Not applicable	<b>Marine Pollutant:</b>	Not available

For inner packagings not exceeding 5 L each packaged in a strong outer box: Limited Quantity

**Additional information:**

**TDG**

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

**Special precautions for user:**

Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport. Multi-modal shipping descriptions are provided for information purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all the risks deriving from the substances and on all actions in case of emergency situations.

**Transport within the user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Proof of Classification statement:**

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**U.S. Regulatory Rules:**

Chemical / Ingredient Name	CAS Number	CERCLA/SARA Section 302	SARA (311, 312) Hazard Class	CERCLA/SARA Section 313
Fatty acids, C18-unsatd., dimers, polymers w teta, reaction products with poly (bisphenol A diglycidyl ether)	68424-41-9	Not Available	Not Available	Not Available
Tertiary butyl acetate	540-88-5	Not Listed	Listed	Not Listed
Acetone	67-64-1	Not Listed	Listed	Not Listed
Butanol, 1-	71-36-3	Not Available	Not Available	Not Available
Tris-2,4,6-(dimethylaminomethyl) phenol	90-72-2	Not Available	Not Available	Not Available
Bis(dimethyl-aminomethyl) phenol	71074-89-0	Not Available	Not Available	Not Available
Triethylenetetra-mine	112-24-3	Not Available	Not Available	Not Available

**International Inventories**

**TSCA Status:** All components are listed or exempted

**DSL/NDSL Status:** All components are listed

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**16. OTHER INFORMATION**

**Hazardous Material Information System (HMIS):**

**HMIS Health Rating:**    Health hazards 3        Flammability 3        Physical hazards 0

**National Fire Protection Association (NFPA):**

**NFPA:**                    Health hazards 3        Flammability 3        Instability 0

**Hazard Rating Legend**

- \* = Chronic Health Hazard
- 0 = Insignificant
- 1 = Slight
- 2 = Moderate
- 3 = High

Note: HMIS® Ratings involve data and interpretations that can vary from company to company. Although HMIS® ratings and the associated label are not required on SDSs, the preparer may choose to provide them. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

**The customer is responsible for determining the Personal Protective Equipment (PPE) code for this material. For more information on HMIS® PPE codes, consult the HMIS® Implementation Manual.**

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**EPOXY-FIL CATALYST**

SDS No.: 00126

**PRODUCT CODE: H-122****Glossary of Terms:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Services
Ceiling	Maximum Limit Value
CERCLA	Comprehensive Emergency Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
EPCRA	Emergency Planning and Community Right-to-Know Act (a.k.a. Title III, SARA)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HAP	Listed as a Clean Air Act Hazardous Air Pollutant
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N	Not Listed
NA	Not Available
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TWA	Time-Weighted Average
UN	United Nations

**Prepared By:** Regulatory Affairs Department**Preparation Date:** March 30, 2018**Revision Date:** March 30, 2018**Date of Previous Issue:** October 23, 2015**Disclaimer****NOTICE TO READER**

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**End of Safety Data Sheet**