

# #101-102 LIVA Stained Glass Finishing Compound

SDS No: 1054-2

Version: 1.1 (REG\_29 CFR 1910.1200/ REG\_GHS Rev.5th e.2013)

Date of Last Revision: 07/06/2016 MSDS-LIVA Stained Glass Polish

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## 1. Identification of the substance or mixture and of the supplier:

**1.1 Product identifier used on the label:** LIVA Stained Glass Polish

**1.2 Other means of identification:**

**1.3 Recommended use of the chemical and restrictions on use:** A high gloss liquid polish and wax. This material should not be used for any other purpose than that recommended without expert advice.

**1.4 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

LIVA Stained Glass Polish  
5220 Westwood Drive  
St. Charles, MO 63304  
636-498-5104

**1.5 Emergency Phone Numbers:**

LIVA Stained Glass Polish: (636) 498-5104, Monday - Friday 8:00am-2:30pm, Saturday 8:00am-12:00pm,  
ChemTrec: (800) 424-9300 - Outside the Continental US: (703) 527-3887, 24 Hours

## 2. Hazard(s) Identification:

**2.1 Classification of the chemical in accordance with 29 CFR 1910.1200(d) And GHS Rev.5th e.2013:**

This product is classified as hazardous.

Flammable Liquid Category 4

Aspiration Toxicity Category 1

Skin Irritation Category 3

Specific Target Organ Toxicity Single Nervous System Exposure Category 3  
(Central Nervous System)

**2.2 Signal word, hazard statement(s), symbols(s), and precautionary statement(s), In accordance with 29 CFR 1910.1200(f) and GHS Rev.5th e.2013:**

**Signal word:** Danger

**Hazard Statements(s):**

- **Physical Hazards:** H227: Combustible liquid.
- **Health Hazards:** H304: May be fatal if swallowed and enters airways.  
H316: Causes mild skin irritation.  
H336: May cause drowsiness or dizziness (Central Nervous System)

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### Symbol(s):

			
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### Precautionary statement(s):

#### Prevention:

P102: Keep out of reach of children.

P210: Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P264: Wash hands thoroughly after handling.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/eye protection.

#### Response:

P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331: Do Not induce vomiting.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

#### Disposal:

P501: Dispose of contents/container in accordance with CERCLA/CWA (Section 311)SARA Title III Regulations.

**2.3 Describe any hazards not otherwise classified that have been identified during the classification process:** Repeated exposure may cause skin dryness and cracking

**2.4 Where an ingredient with unknown acute toxicity is used in a mixture at a concentration  $\geq$  1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required:** Not Applicable

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### 3. Composition/information on ingredients

Chemical Name	CAS NO.	EC NO.	Concentration (WT%)	Classification 29 CFR 1910.1200(d)/GHS
Naphtha(Petroleum)	64742-48-9	265-150-3	30.00-59.00	Asp Tox. 1 H304 Flam Liq.3 H226 Skin Irrit.3 H316 STOT SE3 H336

### 4. First-aid measures

#### 4.1 Description of necessary measures, subdivided according to the different routes of exposure, i.e., Inhalation, skin and eye contact, and ingestion.

- **Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, get medical attention.
- **Skin contact:** Clean affected areas with mild soap and water. Remove contaminated clothing, including shoes, and launder before reuse or discard. If any irritation persists, seek medical attention.
- **Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If any irritation persists, get medical attention.
- **Ingestion:** Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. If possible, do not leave victim unattended. Get medical attention immediately. Potential for chemical pneumonitis.

**4.2 Most important symptoms/effects, acute and delayed:** Fever greater than 101° F (38° C), shortness of breath, chest congestion or continued coughing or wheezing, irritation of the nose and throat and signs of nervous system depression (e.g. headache, nausea, drowsiness, dizziness, fatigue, visual impairment, difficulty breathing, and loss of coordination).

**4.3 Indication of immediate medical attention and special treatment needed, if necessary:** Fever greater than 101° F (38° C), shortness of breath, chest congestion or continued coughing and wheezing.

### 5. Fire-fighting measures

**5.1 Suitable (and unsuitable) extinguishing media:** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing Waters into the aquatic environment.

**5.2 Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**

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Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapor is heavier than air, spreads along the ground and distant ignition is possible.

**5.3 Special protective equipment and precautions for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Wear protective equipment to prevent skin and eye contact and breathing in vapors. Remove all possible sources of ignition in the surrounding area. Shut off leaks, if possible without personal risks. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge, Ensure electrical continuity by bonding and grounding (earthing) all equipment.

**6.2 Methods and materials for containment and cleaning up:** For small liquid spills (<1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (>1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424-8802. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Centre at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

### 7. Handling and storage:

#### 7.1 Precautions for safe handling:

Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Handle an open container with care in a well-ventilated area. Ventilate work place in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains. Avoid handling above its flash point otherwise the product will foam flammable/explosive vapor-air mixtures

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### 7.2 Conditions for safe storage, including any incompatibilities:

For small containers, keep out of reach of children. Keep tightly closed and store in a cool and well ventilated area. Store only in approved containers and protect from physical damage. Storage should meet OSHA standards. Empty drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulation. Do not overheat; product will start boiling if heated above 200 °F. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld, or perform similar operations on or near Containers.

### 8. Exposure controls/personal protection

**8.1 OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:**

Chemical Name	Type	Exposure Limit Values	Source
Naphtha(Petroleum), Hydrotreated Heavy CAS NO: 64742-48-9	*RCP TWA(vapor)	1200 mg/m <sup>3</sup>	ExxonMobil
Nuisance dusts (Includes all inert and nuisance dust like Calcined Kaolin or Aluminum oxide)	TWA	15 mg/m <sup>3</sup> (total dust) 5mg/m <sup>3</sup> (respirable fraction)	OSHA PEL

\*Reciprocal Calculation Procedure

**8.2 Appropriate engineering controls:** Use general dilution and/or local exhaust ventilation to control Airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.3 Individual protection measures, such as personal protective equipment:

- **Eye/face protection:** Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields
- **Skin/hand protection:** Select and use gloves and/or protective clothing to approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture,

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frequency and duration physical challenges such as temperature extremes, an other use conditions. Consult with your gove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Nitrile rubber

- Respiratory protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements. If applicable, types of respirators to be considered for this material include: half-face air-purifying respirator suitable for organic vapors and particulates (P95).

### 9. Physical and Chemical properties

<b>Appearance (physical state, color, etc.):</b>	Liquid, off white color
<b>Odor:</b>	Characteristic scent
<b>Odor threshold:</b>	Not Determined
<b>pH:</b>	6.00-7.00
<b>Melting point/freezing point:</b>	Not Applicable
<b>Initial boiling point and boiling range:</b>	212F
<b>Flash point</b>	>60°C(140F)
<b>Evaporation rate:</b>	Not Determined
<b>Flammability (solid, gas):</b>	Not Applicable
<b>Upper/lower flammability or explosive limits:</b>	Not Applicable
<b>Vapor pressure:</b>	Not Determined
<b>Vapor density:</b>	Not Determined
<b>Relative density:</b>	0.885 at 77F (Water=1)
<b>Solubility(ies)</b>	Immiscible in water
<b>Partition coefficient: n-octanol/water:</b>	Not Determined
<b>Auto-ignition temperature:</b>	Not Applicable
<b>Decomposition temperature:</b>	Not Applicable
<b>Viscosity:</b>	Not Determined

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### 10. Stability and reactivity

**10.1 Reactivity:** This material is considered to be non reactive under normal use conditions.

**10.2 Chemical stability:** Stable.

**10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to avoid(e.g., static discharge, shock, or vibration):** Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials:** Strong oxidizing agents.

**10.6 Hazardous decomposition products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, and gases, including carbon monoxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

### 11. Toxicological information

**Description of the various toxicological (health) effects and the available data used to identify those effects, including:**

#### 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

- **Inhalation:** Breathing if high vapor concentrations may cause central nervous system, (CNS) depression resulting in dizziness light-headedness, headache, nausea and loss of coordination. Avoid breathing dust/fume/gas/mist/vapors/spray.
- **Ingestion:** Harmful if swallowed. May be fatal if swallowed and enters airways.
- **Skin contact:** Direct prolonged or repeated contact may cause mild irritation. Repeated exposure may cause skin dryness and racking.
- **Eye contact:** Direct contact may cause mild eye irritation with redness and tearing.

**11.2 Symptoms related to the physical, chemical and toxicological characteristics:** Not determined

**11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure:** See section 11.1.

**11.4 Numerical measures of toxicity (such as acute toxicity estimates):** Not determined on the mixture

#### Acute toxicity

Name (Components)	Route	Species	Value
Naphtha(Petroleum),	Dermal	Rat	LD50>3160 mg/kg

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Hydrotreated Heavy, CAS NO: 64742-48-9			
"	Ingestion	Rat	LD50>10000mg/kg
"	Inhalation-vapor (4 hours)	Rat	Minimally toxic. Based on test data for the material. (ExxonMobil)

**Skin Corrosion/Irritation**

Name (Components)	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS NO: 64742-48-9)	Rabbit	Slight Irritation

**Serious Eye Damage/Irritation**

Name (Components)	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS NO: 64742-48-9)	Rabbit (24 Hours)	Minimally irritating

**Respiratory or skin Sensitization**

Name (Components)	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS NO: 64742-48-9)	Human and Animal	Not a sensitizer

**Germ Cell Mutagenicity**

Name (Components)	Route	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS NO: 64742-48-9)	In Vitro	Not mutagenic
"	In Vivo	Not mutagenic

**Carcinogenicity**

Name (Components)	Route	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy CAS NO: 64742-48-9	Dermal	Not Specified	Repeated exposure may cause skin tumor promotion in experimental animals.

**Reproductive toxicity**

Name	Route	Species	Test Organ	Value	Test Result	Exposure
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(Component s)						Duration
Naphtha(Petroleum), Hydrotreated Heavy CAS NO: 64742-48-9	Inhalation		Central Nervous system	May cause drowsiness or dizziness	NOAEL Not available	

**Specific Target Organ Toxicity- single exposure**

Name (Components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
Naphtha(Petroleum), Hydrotreated Heavy CAS NO: 64742-48-9		Rat	Kidney/Liver	Not considered relevant to humans. Not classified.		

**Specific Target Organ Toxicity-repeated exposure**

Name (Components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
Naphtha(Petroleum), Hydrotreated Heavy CAS NO: 64742-48-9		Rat	Kidney/Liver	Not considered relevant to humans. Not classified.		

**Aspiration Hazard**

Name (Components)	Value
Naphtha(Petroleum), Hydrotreated Heavy CAS NO: 64742-48-9	Aspiration hazard Toxicity Category1

**12. Ecological information****12.1 Ecotoxicity (aquatic and terrestrial, where available):** Not determined**12.2 Persistence and degradability:** Not determined**12.3 Bioaccumulative potential:** Has the potential to bioaccumulate**12.4 Mobility in soil:** Absorbs to soil and has low mobility. Floats on water.**12.5 Other adverse effects (such as hazardous to the ozone layer):** Not determined

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### 13. Disposal considerations

**13.1 Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:** Dispose of contents/ container in accordance with the local/regional;/national/international regulations. Do not contaminate any lakes,, streams, ponds or underground water supplies.

**Empty Container Warning:** Empty Container warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do Not pressurize cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause serious injury or death.

### 14. Transport information

Because this product is produced and shipped in several different container sizes, domestically and internationally, please consult your transportation specialist for the proper shipping name and class.

**14.1 UN number:** 1268

**14.2 UN proper shipping name:** Petroleum distillates, N.O.S.

**14.3 Transport hazard class(es):** Class 3, Combustible Liquid

**14.4 Packing group, if applicable:** Group III

**14.5 Environmental hazards (e.g., Marine pollutant (YES/NO)):** Not determined

**14.6 Transport in bulk( according to Annex II of MARPOL 73/78 and the IBC Code):** Not determined

**14.7 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises:** Not determined

**Additional Information:** This material is not regulated under 49 CFR if in a container of 120 gallon capacity or less. This material is an 'OIL' under 49 CFR Part 130 when transported in a container of 3500 gallon capacity or greater.

### 15. Regulatory information

**15.1 Safety, health and environmental regulations specific for the product in question:**

- **OSHA Hazard Communication Standard:** This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200 (see Section 2).
- **TSCA:** Components of this product are listed on the TSCA Inventory.
- **SARA Title III, Section 302 (Extremely Hazardous Substances):** None.

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- **SARA Title III, Section 313:** None.
- **SARA Title III, Section 311/312 Classifications:**  
 Fire Hazard: Yes                      Pressure Hazard: No    Reactivity Hazard: No  
 Immediate Hazard: Yes              Delayed Hazard: Yes
- **CERCLA Hazardous Substance:** This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act(CERCLA). Contact local authorities to determine if other reporting requirements apply.
- **Clean Air Act Section 112(r):** None.
- **CLEAN WATER ACT/OIL POLLUTION ACT:** This product is classified as an oil under Section 311 of the sheen on either surface water or in waterways/sewers which lead to surface water must be reported to the National Response Center at (800) 424-8802.
- **CA PROP 65:**  
 WARNING! This product contains a chemical known to the State of California to cause cancer. None. WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. None.

**Note:** the regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16. Other information including date of preparation or last revision:

#### Full text of H-statements referred to under sections 2 and 3:

H226: Flammable liquid and vapor.

H227: Combustible liquid.

H304: May be fatal if swallowed and enters airways.

H316: Causes mild skin irritation.

H333: May be harmful if inhaled.

H336: May cause drowsiness or dizziness.

Asp Tox. 1: Aspiration Toxicity Category 1.

Skin Irrit. 3: Skin Irritation Category 3.

STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3

**Sources of key data used to compile the Safety Data Sheet:**

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International Agency for Research on Cancer  
 International Air Transport Association: Dangerous Goods Regulations.  
 International Maritime Organization: International Maritime Dangerous Goods Code Components supplier data  
 Globally harmonized system of classification and labeling of chemicals (GHS Rev.5th e.2013)  
 European Chemicals Agency website  
 EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory  
 US California Proposition 65  
 US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)  
 US Department of Health & Human Services. National Toxicology Program  
 US Department of Transport DOT 49 CFR  
 US National Fire Protection Association (NFPA)704  
 US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)  
 US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication Standard)  
 US OSHA 29 CFR 1910.1000-table Z1 (exposure limits)  
 US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312; 313  
 US Toxic Substances Control Act (TSCA)

**Key or legend to abbreviations and acronyms used in the safety data sheet:**

ACGIH- American Conference of Governmental Industrial Hygienists  
 CAS NO- Chemical Abstract the No.  
 CERCLA -US Comprehensive Environmental Response, Compensation, and Liability Act  
 COC- Cleveland Open Cup (flash and fire point)  
 DOT- Department of Transportation  
 EPA- Environmental Protection Agency  
 IARC- International Agency for Research on Cancer  
 IATA- International Air Transport Association  
 IMDG- International Maritime Dangerous Goods code  
 mg/m<sup>3</sup>- milligrams per cubic meter  
 mg/l- milligrams per liter  
 NIOSH- National Institute for Occupational Safety and Health  
 NFPA- US National Fire Protection Association  
 NTP- National Toxicology Program  
 OSHA- Occupational Safety and Health Administration  
 PEL- Permissible Exposure Limits  
 ppb- Parts per Billion  
 Ppm- Parts per Million  
 PMCC- Pensky-Martin Closed Cup (flash point)  
 RCRA- EPA Resource Conservation and Recovery Act  
 SARA- Superfund Amendments and Reauthorization Act Title I, II, III  
 SDS- Safety Data Sheet  
 STEL- Short Term Exposure Limit  
 TCC- Tag Closed Cup (flash point)  
 TLV- Threshold Limit Value  
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>- More than

**Procedure used to derive the classification for mixtures according to Regulations 29 CFR 1900.1200 and GHS Rev.5th e.2013:**

Calculation method: Classification of mixtures based on ingredients of the mixture.

**LEGAL DISCLAIMER:**

*The information contained in this document is based upon data believed to be reliable at the time of preparing this SDS and relates only to the matters specifically mentioned in this document. Although LIVA Stained Glass Finishing Compound has used reasonable skill and care in the preparation of this information, in the absence of any overriding obligations arising under a specific contract, no representation, warranty (express or implied), or guarantee is made as to the suitability, accuracy, reliability, or completeness of the information; nothing in this document shall reduce the user's responsibility to satisfy itself as to the suitability, accuracy, reliability, and completeness of such information for its particular use; there is not warranty against intellectual property infringement; and LIVA shall not be liable for any loss, damage or injury that may occur from the use of this information, No statement shall be construed as an endorsement of any product or process. For greater certainty, before use of information contained in this document, particularly if the product is used for a purpose or under conditions which are abnormal or not reasonably foreseeable, this information must be reviewed with the supplier of such information. LIVA also does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.*

Prepared by: LIVA

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