SAFETY DATA SHEET
EDS-QR™

Creation Date: 3/5/2016
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Version 1.2
SDS # 02A

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Name: EDS-QR™, Electron Donor Solution – Quick Release

Synonyms: 1,2,3-Propanetriol, Glycerol, Glycerine

Trade Name: Refined Glycerin 99.7% min purity

Product Form: Substance/Mixture

1.2 Recommended use of the chemical and restrictions on use

Recommended Use: Remediation of contaminated groundwater and soils.

Identified Uses: Raw material for manufacturing oleochemical derivatives; used in synthesis and as a solvent.

Restrictions on Use: Use as recommended by the label.

1.3 Details of the supplier and of the safety data sheet

Supplier
Tersus Environmental, LLC
1116 Colonial Club Rd
Wake Forest, NC 27587
Phone: +1-919-453-5577
Email: info@tersusenv.com

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:

+1-919-453-5577 (Tersus Office Hours, 8:00 AM to 5:00 PM Eastern)
+1-800-424-9300 (Chemtrec 24 Hour Service – Emergency Only)

2. HAZARD IDENTIFICATION

2.1 Relevant identified uses of the substance or mixture

This product is not applicable to the GHS categories. However, according to the OSHA Hazard Communication Standard (29 CFR 1910.1200), this product is not considered a hazardous substance or mixture.

2.2 Other hazards

None known

2.3 GHS Label elements

None

2.4 Potential Health Effects

Eyes: Can be irritating to the eyes.
Ingestion: Can be harmful if ingested.
Respiratory: Can be harmful if inhaled. Avoid breathing mist.
Skin: Can be irritating to the skin.

WHMIS Class (Canada):
Key:
Not controlled under WHMIS
B 2-Flash Point <38° C, B 3 >38°C & <93°C
D 1-Immediately Toxic, D 2-Chronic Toxicity
C – Oxidizing Substance, E – Corrosive

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance Glycerin
3.2 Chemical Formula $C_3H_8O_3$

Chemical Name	CAS number	Concentration (%)	TLV Ppm/mg/ m^3	$LD_{50(mh/kG)}$ ORAL	$LD_{50(mh/kg)}$ SKIN	LC_{50} ppm Inhalation
Glycerin	56-81-5	99.7% min.	2.7/10	4090	>10,000	150

3.3 Impurities and Stabilizing Additives
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 require reporting in this section.

Synonyms are provided in Section 1.
Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 General Information Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Take care to self-protect by avoiding becoming contaminated.

4.1.1 Eye Contact Promptly wash eye with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Do not apply (chemical) neutralizing agents. In case of eye irritation consult an ophthalmologist. Remove any contact lenses and open eyelids wide apart.

4.1.2 Skin Contact Wash off promptly and flush contaminated skin with water. Promptly remove clothing of soaked through and flush skin with water. Get medical attention if irritation persists after washing. Do not apply (chemical) neutralizing agents.

4.1.3 Inhalation Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

4.1.4 Ingestion Give plenty of water to dilute product. Do not induce vomiting. Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

4.2 Important symptoms and effects (acute and delayed)

Symptoms/injuries after skin contact: Causes skin irritation
Symptoms/injuries after eye contact: Eye damage / irritation

4.3 Indication of any immediate medical attention and special treatment needed If exposed or concerned, get medical advice and attention.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media Use dry powder, foam, carbon dioxide for extinguishing.

5.2 Specific Hazards Arising from the Chemical Or Mixture

5.2.1 Fire hazard: DIRECT FIRE HAZARD. Combustible keep away from open flame, no smoking.
INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard.
5.2.2 Explosion hazard: No direct explosion hazard.
5.2.3 Reactivity: Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapors (acrolein). Upon combustion CO and CO_2 are formed. May polymerize on exposure to temperature rise. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts with (some) acids: (increased) risk of fire/explosion.

5.3 Advice for Firefighters

5.3.1 Firefighting instructions: Exercise caution when fighting any chemical fire.
5.3.2 Protection during firefighting: Firefighters should wear full protective gear. Use self-contained breathing equipment if in confined place. Do not enter fire area without proper protective equipment, including respiratory protection.

5.4 Other Information Refer to Section 9 for flammability properties (flash point, auto ignition temperature, etc.).

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke or use open fire or other sources of ignition. Contact with walking surface may result in formation of slippery film/falling hazard.

6.2 First Aid In case of contact with skin, wash with soap and water. If symptoms occur, seek medical attention. In case of contact with eyes, rinse with plenty of water for at least 15 minutes and see an eye specialist if irritation persists. In case of inhalation, remove to fresh air. In case of ingestion, drink water. If symptoms occur, seek medical assistance.

6.3 Environmental Precautions	Do not discharge into drains, sewers, or watercourses or onto the ground (dyke to control any potential spillage and prevent environmental contamination). Inform the relevant authorities if this occurs.
6.4 Methods for Containment and Clean Up	**6.4.1 For containment** Ventilate the area. Collect leakage (with suitable pumps) in sealable containers (for disposal), soak up with sand or other inert absorbent and remove to safe place. Flush away remainder with water. Recover free liquid with suitable pumps; absorb residue on an inert sorbent; sweep, shovel & store in closed containers for disposal. **6.4.2 Methods for cleaning up** Clear up spills immediately and dispose of waste safely
6.5 Leak precaution	Dyke to control spillage and prevent environmental contamination.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling	**7.1.1 Prevention of user exposure:** Put on appropriate personal protective equipment. Use gloves and wear goggles when handling. Avoid breathing or generating mist created by the product. Avoid contact with skin and wash work clothes regularly. An eye bath should be available at the workplace as well. **7.1.2 Prevention of fire and explosion:** Handling temperature ≥ 10 °C above melting point **7.1.3 Precautions while moving the product:** Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Glycerol absorbs moisture from air. Store and use in a dry environment, away from oxidizing agents. Never cut, drill, weld, or grind on this container, whether empty or full. Always replace drum, pail, or IBC cap prior to moving the container.
7.2 Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures. Workers should wash their hands and face before eating, drinking, and smoking. Avoid generating or breathing product mist. Use with adequate ventilation to maintain airborne concentration of the product below the TLV (see IV, IX above). Avoid prolonged contact with skin and wash work clothes frequently. An eye bath should be available near the workplace.
7.3 Conditions for safe storage, including incompatibilities	**7.3.1 Storage precautions:** Keep in a cool and dry place (as glycerol can absorb moisture from the air). Keep separate from oxidants. Avoid extreme heat and cold. Avoid direct fire. Store in clean, dry, and preferably stainless steel or HDPE vessels. Never cut, drill, weld, or grind this container when empty or full. **Always Replace Drum, Pail, or IPC Cap Prior to Moving!** In bulk, store at ambient temperature. Temperature higher than necessary degrades quality at rate dependent on time and temperature of exposure. Exposure to ultraviolet light, especially sunlight, must be minimized to prevent quality loss. **7.3.2 Incompatible products:** Heat sources, oxidizing agents, strong acids, strong bases.

7.3.3 Packaging materials: Packaging should be closable, dry, clean, correctly labelled, and meet the legal requirements. Secure fragile packaging in solid containers. Suitable storage includes steel, aluminum, iron, synthetic material, glass.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Exposure guidelines, ingredients with workplace control parameters.

8.1.1 Occupational Exposure Controls: N/A
8.1.2 Technical measures: N/A
8.1.3 Occupational Exposure Limits: Glycerin (see table below)

Source	Type	Value	Note
US (OSHA)	TWA	10 mg/m^3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants
US (ACGIH)	TWA	10 mg/m^3	ACGIH Threshold Limit Value

8.2 Exposure Control

8.2.1 Protective equipment

8.3 Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Observe any occupational exposure limits for the product or ingredients. Do not allow uncontrolled discharge of product into the environment.

8.3.1 Eye/face protection

Use protective goggles and/or a full-face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU). Maintain eye wash fountain and quick-drench facilities in work area.

8.3.2 Respiratory protection

Mist formation: aerosol mask with filter type P1. On heating: gas mask with filter type A.

8.3.3 Hand protection

Suitable protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

8.3.4 Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. However, no special type of protective clothing is required.

8.4 Hygiene measures

Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking, and using the toilet. When using do not eat, drink, or smoke.

8.5 Environmental Exposure Controls If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Physical State	Clear hygroscopic viscous liquid
Color	Clear and bright (water like)
Odor	odorless
Molecular Weight	92.09 g/mol

Safety Data

pH:	None – doesn't contain hydrogen ions in solution
Initial boiling point and boiling range:	290 - 295°C @ 760mm Hg
Flash point:	>199°C
Evaporation rate:	n/a
Flammability (solid, gas):	n/a
Upper/lower flammability or explosive limits:	n/a
Vapor pressure:	< 0.001 hPa @ 20°C
Vapor pressure:	0.0033 hPa @ 50°C
Vapor density:	3.2 (relative, air=1)
Density:	1.26 g/cm³
pH:	Neutral
Solubility(ies):	Infinite g/100 ml in water @ 20°C
Partition coefficient: n-octanol/water:	-2.6
Auto-ignition temperature:	370°C
Decomposition temperature:	290°C
Viscosity:	1490 centipoise (20°C)
Log Pow: -	1.76/2.6
Melting point/freezing point:	18°C
Boiling Point:	290°C

10. STABILITY AND REACTIVITY

10.1 Reactivity Vapor mixes readily with air. Decomposes on exposure to temperature rise: release of toxic, corrosive, combustible gases/ vapors (acrolein). Upon combustion CO and CO_2 are formed. May polymerize on exposure to temperature rise. Reacts violently with strong oxidizers: increased risk of fire/explosion. Reacts with some acids: increased risk of fire/explosion.

10.2 Chemical stability Hygroscopic. Able to polymerize above 150°C. Decomposes when heated above 290°C.

10.3 Possibility of hazardous reactions Strong oxidizing agents (chromium trioxide, potassium chlorate, or potassium permanganate) may cause an explosion. acetic anhydride

10.4 Conditions to avoid None known

10.5 Incompatible materials Reacts violently with strong oxidants

10.6 Hazardous decomposition products Low toxicity in original state and not considered hazardous to human beings. On heating/burning release of toxic/combustible gases/vapors (acrolein).

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity by oral route, inhalation, and dermal route: Not Classified

Product	Test	Species	Dose
Glycerin	LD50, Oral	Rat	12,600 mg/kg
	LC50, Inhalation	Rat	39ppm/143mg/ m^3
	LD50, Skin	Rabbit	> 23,000 mg/kg

11.2 Additional Toxicological Information
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

Skin Contact - No effect apart from softening skin
Skin Absorption - Slight, no toxic effects likely by this route may be mildly irritating
Eye Contact - Mist may be slightly irritating l
Inhalation - Little to no effect; very large doses – 1⁄2 liter
Ingestion - May damage red cells and cause bloody urine; this effect is brief as glycerol is eliminated from the body within 2-3 hours.

11.3 Carcinogenic Categories

11.3.1 IRAC (International Agency for Research on Cancer): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

11.3.2 ACGIH (American Conference of Governmental Industrial Hygienists): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

11.3.3 NTP (National Toxicology Program): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

11.3.4 OSHA (Occupational Safety & Health Administration): No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity (aquatic and terrestrial, where available)

- **12.1.1 Ecology - General**: No supplementary information available.
- **12.1.2 Ecology - Air**: TA-Luft Klasse 5.2.5.
- **12.1.3 Ecology - Water**:
  - Mild water pollutant (surface water)
  - Not harmful to fishes (LC50 (96h) >1,000 mg/l)
  - Not harmful to aquatic organisms (EC50 >1,000 mg/l)

- Not harmful to algae
- Not harmful to bacteria
- Bioaccumulation: not applicable
- Sludge digestion is inhibited at >1,000 mg/l 50%
- Readily biodegradable in water (OECD 301D: 82%; 20 days)

12.2 Organism/Biotic Test	**12.2 Toxicity**
LC50 fishes 1	51,000-57,000 mg/l (96 h, SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
LC50 other aquatic organisms 1	> 1,000 mg/l (96 h)
LC50 other aquatic organisms 1	> 1,000 mg/l (BACTERIA, ACTIVATED SLUDGE)
LC50 fish 2	> 1,000 mg/l (96 h, PISCES)
EC50 Daphnia 2	> 10,000 mg/l (24 h, DAPHNIA MAGNA, LOCOMOTOR EFFECT)
TLM fish 1	> 1,000 ppm (96 h, PISCES)
TLM other aquatic organisms 1	> 1,000 ppm (96 h)
Threshold limit other aquatic organisms 1	2,900 mg/l (192 h, MICROCYSTIS AERUGINOSA, TOXICITY TEST)
Threshold limit other aquatic organisms 2	> 10,000 mg/l (16 h, PSEUDOMONAS PUTIDA, TOXICITY TEST)
Threshold limit algae 1	> 10,000 mg/l (168 h, SCENEDESMUS QUADRICAUDA, TOXICITY TEST)
TGK 3% (Algae)	>10,000mg/liter (Scenedesmus quadricauda), 2900mg/liter (Microcistis aeruginosa)
TGK 5%(Flagellates)	>10,000mg/liter (Chilomonas paramecium & Uronema parduczi)
TGK 3% (Bacteria)	>10,000mg/liter (Pseudomonas putida)

12.3 Persistence and Degradability: Readily biodegradable, OECD 301
Biochemical oxygen demand (BOD): 0.87 g O2/g substance
Chemical oxygen demand (COD): 1.16 g O2/g substance (ISO 15705)
ThOD: 1.217 g O2/g substance
BOD: (% of ThOD) 71 % ThOD

12.4 Bioaccumulative Potential: Log P octanol /water = -1.76/2.6
Readily metabolized (biological 1⁄2-life 30-40 min); cannot bioaccumulate

12.5 Mobility in the Soil: Surface tension 0,063 N/m (20°C)
Ecology - biodegradability in soil: no data available.

12.6 Other Adverse Effects: None available

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Methods	Dispose according to federal, state, and local laws. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Authority. Waste is suitable for incineration. Do not flush to sewer; mix with flammable waste and incinerate in approved facility with flue gas monitoring and scrubbing; may be landfilled if local regulations permit.
13.2 Methods of Disposal of Waste Residue	Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite, or powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable

container materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling. Do not discharge into surface water (do not flush down sewer, let the liquid go down drains, etc.).
Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.
Pails must be vented and thoroughly dried prior to crushing and recycling.
IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected; pressure tested and recertified every 5 years.

14. TRANSPORTATION INFORMATION

14.1 U.S. (D.O.T.)

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable

14.2 Canada (T.D.G.)

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels	Not applicable

14.3 IMDG

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable

14.4 IATA

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

15. REGULATORY INFORMATION

15.1 EPCRA - Emergency Planning and Community Right-to-Know Act

15.2 CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

15.3 SARA 311/312 Hazards No SARA Hazards

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

15.4 California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.5 The components of this product are reported in the following inventories

CH INV:	On the inventory, or in compliance with the inventory
DSL:	All components of this product are on the Canadian DSL
AICS:	On the inventory, or in compliance with the inventory
NZIoC:	On the inventory, or in compliance with the inventory
ENCS:	On the inventory, or in compliance with the inventory
KECI:	Not in compliance with the inventory
PICCS:	On the inventory, or in compliance with the inventory
IECSC:	On the inventory, or in compliance with the inventory
TCSI:	On the inventory, or in compliance with the inventory
TSCA:	On the inventory, or in compliance with the inventory

15.6 National Regulations

Chemical inventories: Listed on AICS, DSL, ECL, ECST, ENCS, IECSC, NZIoC, PICCS, SWISS, TSCA, EC inventories Swiss Ordinance (RS 817.023.21) Annex 6: List of additives (part A), List of binders (part A), List of solvents (part A) WGK class: 1 (weak water endangering)

15.7 EU Regulations

No REACH Annex XVII restrictions
EU Regulation 10/2011 (Annex I): FCM 103 - (CAS 0000056-81-5) glycerol

15.8 TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

15.9 US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

15.10 USA Regulations

Allowable Tolerances: Residues resulting from the use of the following substances as either an inert or an active ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemicals, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices. Glycerin is included on this list.

OSHA Standards: Permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 15 mg/cu m. /Mist, total dust/ Permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 5 mg/cu m. /Mist, respirable fraction/ Vacated 1989 OSHA PEL TWA 10 mg/cu m is still enforced in some states. /Mist, total/ Vacated 1989 OSHA PEL TWA 5 mg/cu m is still enforced in some states. /Mist, resp/

NIOSH Recommendations: NIOSH concluded that the documentation cited by OSHA was inadequate to support the proposed PEL (as an 8-hour TWA) of 10 mg/m3 for glycerin (mist).

Threshold Limit Values: 8 hr. Time Weighted Avg (TWA): 10 mg/m3. /Glycerin mist/ Excursion Limit Recommendation: Excursions in worker exposure levels may exceed 3 times the TLV-TWA for no more than a total of 30 minutes during a workday, and under no circumstances should they exceed 5 times the TLV-TWA, provided that the TLV-TWA is not exceeded. /Glycerin mist/ 2011 Notice of Intended Changes: These substances, with their corresponding values and notations, comprise those for which (1) a limit is proposed for

the first time, (2) a change in the Adopted value is proposed, (3) retention as an NIC is proposed, or (4) withdrawal of the Documentation and adopted TLV is proposed. In each case, the proposals should be considered trial values during the period they are on the NIC. These proposals were ratified by the ACGIH Board of Directors and will remain on the NIC for approximately one year following this ratification. If the Committee neither finds nor receives any substantive data that changes its scientific opinion regarding an NIC TLV, the Committee may then approve its recommendation to the ACGIH Board of Directors for adoption. If the Committee finds or receives substantive data that change its scientific opinion regarding an NIC TLV, the Committee may change its recommendation to the ACGIH Board of Directors for the matter to be either retained on or withdrawn from the NIC. Substance: Glycerin, mist (56-81-5); Withdraw adopted Documentation and TLV.

Atmospheric Standards: This action promulgates standards of performance for equipment leaks of Volatile Organic Compounds (VOC) in the Synthetic Organic Chemical Manufacturing Industry (SOCMI). The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non-air quality health and environmental impact and energy requirements. Glycerol is produced, as an intermediate or a final product, by process units covered under this subpart.

FIFRA Requirements: Residues resulting from the use of the following substances as either an inert or an active ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemicals, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices. Glycerin is included on this list. As the federal pesticide law FIFRA directs, EPA is conducting a comprehensive review of older pesticides to consider their health and environmental effects and make decisions about their future use. Under this pesticide reregistration program, EPA examines health and safety data for pesticide active ingredients initially registered before November 1, 1984, and determines whether they are eligible for reregistration. In addition, all pesticides must meet the new safety standard of the Food Quality Protection Act of 1996. Pesticides for which EPA had not issued Registration Standards prior to the effective date of FIFRA, as amended in 1988, were divided into three lists based upon their potential for human exposure and other factors, with List B containing pesticides of greater concern and List D pesticides of less concern. Glycerol is found on List D. Case No: 4044; Case Status: No products containing the pesticide are actively registered ... The case /is characterized/ as "cancelled." Under FIFRA, pesticide producers may voluntarily cancel their registered products. EPA also may cancel pesticide registrations if registrants fail to pay required fees or make/meet certain reregistration commitments, or if EPA reaches findings of unreasonable adverse effects.; Active ingredient (AI): Glycerol; AI Status: The active ingredient is no longer contained in any registered pesticide products, "cancelled."

FDA Requirements: Substances migrating to food from paper and paperboard products used in food packaging that are generally recognized as safe for their intended use, within the meaning of section 409 of the Act: Glycerin is included on this list. Glycerin used as a multiple purpose GRAS food substance in food for human consumption is generally recognized as safe when used in accordance with good manufacturing practice. Glycerin used as a general-purpose food additive in animal drugs, feeds, and related products is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

16. OTHER INFORMATION

Disclaimer: The information contained in this Safety Data Sheet (SDS), as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty, express or implied, or guarantee. Tersus Environmental, LLC urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. Since we cannot control the application, use or processing of the product, we do not accept responsibility. Therefore, it is the buyer’s/user’s duty to determine the conditions necessary for the safe use of this product and ensure

that the intended use of the product will not infringe any party's intellectual property right. The information presented here pertains only to the product as shipped.

All recommendations for the use of our products, whether given by us, orally or to be implied from data or lab tests results by us, are based on the current state of our knowledge at the time those recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendation the user is responsible for ensuring that the product supplied by us is suitable for the process or purpose he/she intends to use it.

Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

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End of Safety Data Sheet