## SAFETY DATA SHEET **EDS-Activator™ SH**



Revision date: 4/18/2023 Version 1.0

## PRODUCT AND COMPANY IDENTIFICATION

### **Product Identifier**

Product Name: EDS-Activator™ SH

Methanolic solution with Sodium Hydroxide Synonyms:

Product Form: Mixture

## Recommended use of the chemical and restrictions on use

Recommended Use: Remediation of contaminated groundwater and soils. Chemical for synthesis.

Use as recommended by the label. Restrictions on Use:

#### 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

#### **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)
- +1-919-638-7892 (Tersus Outside office hours)
- +1-800-424-9300 (Chemtrec 24 Hour Service Emergency Only)
- +1-703-527-3887 (Chemtrec Outside United States 24 Hour Service Emergency Only)

## 2. HAZARD IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: Highly flammable liquid and vapor. Toxic if inhaled. Causes serious eye damage. Harmful if swallowed. Toxic in contact with skin.

## **GHS Classification**

Acute Tox. 3 Dermal, Acute Tox. 3 Inhalation, Eye Dam. 1, Flam. Liq. 2, Skin Irrit. 2, STOT SE 1

## **GHS-Labeling**

Hazard pictograms











**Signal Word** 

Danger

#### **Hazard Statements**

Flammable Liquid, category 2 H225 Highly flammable liquid and vapor.

Acute Toxicity, Oral, category 4 H301 Toxic if swallowed.

Acute Toxicity, Dermal, category 3 H311 Toxic in contact with skin.

Skin Irritation, category 2 H314 Causes severe skin burns and eye damage.

Serious Eye Damage, category 1 H318 Causes serious eye damage.

Acute Toxicity, Inhalation, category 3 H331 Toxic if inhaled.

STOT, single exposure, category 1 H370 Causes damage to organs.

## **Precautionary Statements**

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ yapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel

unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician

P310 Immediately call a POISON CENTER/doctor

P321 Specific treatment (see first aid section on this label).

P330 Rinse mouth.

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

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use appropriate method to extinguish.

P390 Absorb spillage to prevent material damage.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

#### Other hazards

Water Reactive. Harmful to aquatic life with long lasting effects.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Formula Mixture

**Hazardous components** 

Chemical Name	Concentration (%)	CAS Number
Methanol	75 - 100	67-56-1
Sodium hydroxide	2.5 - 10	1310-73-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Synonyms are provided in Section 1.

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

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4.	FIRST	AID	MEA	SUR	152

General Information First aider needs to protect himself. Remove affected person from source

of contamination.

Eye Contact After eye contact: rinse out with plenty of water.

Immediately call-in ophthalmologist. Remove contact

lenses.

Skin Contact In case of skin contact: Take off immediately all contaminated clothing. Rinse

skin with water/ shower. Call a physician immediately.

Inhalation After inhalation: fresh air. Immediately call-in physician. If breathing stops:

immediately apply artificial respiration, if necessary, also oxygen. Get

prompt medical attention.

Ingestion If swallowed, seek medical advice immediately and show this container or

label. Keep person warm and at rest. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath, Dizziness, narcosis,

agitation, spasms,

n acute and delayed inebriation, Nausea, Vomiting, Headache, Impairment of vision, Coma

Risk of blindness!

Irritation and corrosion, Cough, Shortness of breath

Risk of blindness!

Indication of any immediate medical attention and special treatment needed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or

wear gloves.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Suitable extinguishing media Carbon dioxide (CO2), Dry powder Unsuitable extinguishing media Water, Foam

# Specific Hazards Arising from the chemical or mixture

Combustible.

May not get in touch with: Water

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapors possible in the event of fire. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. This material is harmful to aquatic life. Fire water contaminated with this

material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Special Fire Fighting Procedures

## Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### **Further information**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

## **Environmental Precautions**

Do not let product enter drains. Risk of explosion. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods for Containment and Clean Up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material. Dispose of properly. Clean up affected area.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Keep workplace dry. Do not allow product to encounter water. Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols. Keep workplace dry. Do not allow product to

encounter water.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces, and sources of ignition.

Take precautionary measures against static discharge.

Hygiene measures Handle in accordance with good industrial hygiene and safety

procedures. Use good personal hygiene practices.

Conditions for safe storage,

including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area

accessible only to qualified or authorized persons.

Store below +30°C (+86°F).

## 8. EXPOSRE CONTROL / PERSONAL PROTECTION

#### **Control parameters**

Exposure guidelines, ingredients with workplace control parameters.

Exposure limit(s) Ingredients Basis methanol 67-56-1	Value	Threshold limits	Remarks
ACGIH	Time Weighted Average (TWA):	200 ppm	
	Short Term Exposure Limit (STEL): Skin designation:	200 ppm	Can be absorbed through the skin.
NIOSH/GUIDE	Recommended exposure limit (REL): Skin designation:	200 ppm 260 mg/m3	Can be absorbed through the skin.
OSHA_TRANS	PEL:	200 ppm 260 mg/m <sup>3</sup>	anough the skin.
Z1A	Time Weighted Average (TWA): Skin designation (Final Rule Limit applies): Short Term Exposure Limit (STEL):	200 ppm 260 mg/m <sup>3</sup> 250 ppm 325 mg/m <sup>3</sup>	Can be absorbed through the skin.

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

#### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

## Eye/face protection

Tightly fitting safety goggles

Hand protection

full contact:

Glove material: butyl-rubber
Glove thickness: 0.7 mm

Break through time: > 480 min

splash contact:

Glove material: Viton®
Glove thickness: 0.70 mm
Break through time: > 120 min

## Exposure Control Protective equipment









## Appropriate engineering controls

Provide adequate general and local exhaust ventilation to maintain worker exposure below exposure limits. Ground/bond the container receiving equipment during transfer or on-site mixing. Performing mixing outside so that you have adequate ventilation. Maintain eye wash fountain and quick-drench shower in work area. Observe any occupational exposure limits for the product or ingredients. Do not allow uncontrolled discharge of product into the environment.

If used indoors, a system of local and / or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. Use explosion-proof equipment.

In addition to the information in this SDS, Methanol Institute has published the following guidelines on Drum Handling and Liquid Transfer.

To move a full drum, it is necessary to use a mechanical means such as a barrel hoist or forklift. If no mechanical means is available, then individual drums can be moved by tipping the drum on its side and rolling it to a designated curbed storage area.

If it is necessary to remove a measured quantity of methanol from the drum without using mechanical means such as low pressure inerting, or a siphon, then it is possible to lay the drum on its side and roll the drum into a slanted position with some form of a prop such as a short section of board under the bunged end of the drum. Position the drum with the small bung in a 12 o'clock position and verify that the drum is chocked in a stable position. The drum and the receiving container must be bonded and grounded.

In the 12 o'clock position, the small bung is now in the vapor space of the drum. Replace the bung with a threaded, alcohol compatible hose. Be careful not to breathe the escaping vapors, which are toxic, and may be flammable. Methanol can be removed from the drum in a controlled manner by carefully rolling the drum to the side so the small bung is in the 1 o'clock position, slightly below the liquid level within the drum. Methanol will now flow out of the drum in a controlled manner. Flow can be terminated by returning the drum to the 12 o'clock position. Replace the transfer hose with the bung and return the drum to an upright position. Extreme care must be taken to not drop or otherwise damage totes, drums, cans, and 1-gallon containers during handling.

Methanol is toxic, especially when breathed or ingested. Siphon transfer of methanol must never be started by mouth-suction. Do not breathe the vapor, ingest the liquid, or allow bare skin to contact the liquid.

**Eye/face protection** The following protection should be worn: Chemical splash goggles.

**Respiratory protection** If the exposure limit is exceeded, and engineering controls are not

feasible, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator. Use a positive-pressure air-supplied respirator if there is an uncontrolled release, exposure levels are not known, or any other circumstances where air-

purifying respirators may not provide adequate protection.

Hand protection Butyl-rubber, Viton®

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Flame retardant antistatic protective clothing.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State: Liquid Appearance: Clear transparent liquid Odor: Odor Threshold: N.D. Typical Density, g/cm3: 0.849 pH: N.D. Freeze Point. °F: N.D. Viscosity: N.D. Solubility in Water: Soluble Explosive Limits, vol%: N.D. 999 - 212 Flash Point, °F: Boiling Range, °F: 51

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Evaporation Rate: Not determined Auto-ignition Temp., °F: N.D. Vapor Density: N.D. Vapor Pressure: N.D.

## 10. STABILITY AND REACTIVITY

Reactivity Hydrolyzes

Vapor/air-mixtures are explosive at intense warming.

Chemical stability Sensitive to moisture

Possibility of hazardous

reactions

Violent reactions possible with oxidizing agents, acids, water

Possible decomposition products in case of hydrolysis are corrosive

base, methanol

Conditions to avoid Heating

**Incompatible materials** No further relevant information available.

Hazardous decomposition

products

No further relevant information available.

## 11. TOXICOLOGICAL INFORMATION

#### Likely route of exposure

Inhalation, Eye contact, Skin contact

#### **Target Organs**

Eyes

Skin

#### Respiratory system

Central nervous system gastrointestinal tract

#### Acute oral toxicity

Symptoms: Nausea, Vomiting, If ingested, severe burns of the mouth and throat, as well as a danger of

perforation of the esophagus and the stomach.

Acute toxicity estimate: 142.86 mg/kg Calculation method

## Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath,

Possible damages: damage of respiratory tract

## **Absorption**

Acute toxicity estimate: 4.29 mg/l; 4 h; vapor Calculation method Symptoms: mucosal irritations, Cough, Shortness of breath

Possible damages: damage of respiratory tract

#### Acute dermal toxicity

Acute toxicity estimate: 428.57 mg/kg Calculation method

#### Skin irritation

Mixture causes burns.

#### Eye irritation

Mixture causes serious eye damage. Risk of blindness!

#### Specific target organ systemic toxicity - single exposure

Causes damage to organs.

Target Organs: Eyes

## Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## **Aspiration hazard**

Regarding the available data the classification criteria are not fulfilled.

#### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### **Further information**

After absorption:

Headache, Dizziness, inebriation, Impairment of vision

Systemic effects:

Acidosis, drop in blood pressure, agitation, spasms, narcosis, Coma, Irreversible damage of the optical nerve.

Symptoms may be delayed.

Handle in accordance with good industrial hygiene and safety practice.

Other dangerous properties cannot be excluded.

#### Ingredients

Methanol

Acute oral toxicity

LDLO human: 143 mg/kg (RTECS)

Acute toxicity estimate: 100.1 mg/kg Expert judgment

Acute inhalation toxicity

LC50 Rat: 131.25 mg/l; 4 h; vapor (ECHA)

Acute dermal toxicity

LD50 Rabbit: ca. 17,100 mg/kg (External MSDS)
Acute toxicity estimate: 300.1 mg/kg Expert judgment

Skin irritation

Rabbit

Result: No skin irritation (ECHA)

Eye irritation

Rabbit

Result: No eye irritation (ECHA)

Sensitization

Sensitization test: Guinea pig Result: negative

Method: OECD Test Guideline 406

Repeated dose toxicity
Rat
male and female
Inhalation
vapor 28 d
daily
NOAEL: 6.66 mg/I
OECD Test Guideline 412

Subacute toxicity

Rat

male and female

Inhalation 365 d daily

NOAEL: 0.13 mg/l LOAEL: 1.3 mg/l

**OECD Test Guideline 453** 

Germ cell mutagenicity
Genotoxicity in vivo
Micronucleus test

Mouse

Result: negative

Method: OECD Test Guideline 474

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test Chinese hamster lung cells

Result: negative

Method: OECD Test Guideline 476

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

No information available.

## Persistence and degradability

No information available.

## **Bioaccumulative potential**

Partition coefficient: n-octanol/water

log Pow: -0.74 (20 °C)

Methanol Bioaccumulation is not expected.

#### Mobility in soil

No information available.

## Additional ecological information

Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted. Discharge into the environment must be avoided.

#### Ingredient methanol

Toxicity to fish

Flow-through test LC50 Lepomis macrochirus (Bluegill sunfish): 15,400 mg/l; 96 h US-EPA

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 Daphnia magna (Water flea): > 10,000 mg/l; 48 h DIN 38412

Toxicity to algae

Static test EC50 Pseudokirchneriella subcapitata (green algae): ca. 22,000 mg/l; 96 h OECD Test Guideline 201

Toxicity to bacteria

Static test IC50 activated sludge: > 1,000 mg/l; 3 h Analytical monitoring: yes OECD Test Guideline 209

Toxicity to fish (Chronic toxicity)

NOEC Oryzias latipes (Orange-red killifish): 7,900 mg/l; 200 h (External MSDS)

Biodegradability

99 %; 30 d

OECD Test Guideline 301D Readily biodegradable.

Biochemical Oxygen Demand (BOD)

600 - 1,120 mg/g (5 d)

(IUCLID)

Chemical Oxygen Demand (COD)

1,420 mg/g (IUCLID)

Theoretical oxygen demand (ThOD)

1,500 mg/g

(Lit.)

Ratio BOD/ThBOD

BOD5 76 %

Closed Bottle test

Partition coefficient: n-octanol/water

log Pow: -0.77

(experimental)

(Lit.) Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Stability in water

2.2 year

reaction with hydroxyl radicals (IUCLID)

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** 

The information presented only applies to the material as supplied. The identification based on characteristic(s)

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or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## 14. TRANSPORTATION INFORMATION

U.S. (D.O.T.) Land transport

Proper Shipping Name: Flammable Liquids, Corrosive, n.o.s. (Methanol, Sodium

Hydroxide)

Hazard Class: 3 (8) UN/NA: UN 2920

Packing group: II Environmentally hazardous ---

## 15. REGULATORY INFORMATION

#### **United States of America**

#### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

Methanol 67-56-1 70 %

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **DEA List I**

Not listed

#### **DEA List II**

Not listed

## **US State Regulations**

#### Massachusetts Right to Know

Ingredients methanol

#### Pennsylvania Right to Know

Ingredients methanol

The following non-hazardous ingredients are present in the product at greater than 3%.

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Chemical Name CAS-No. Water 7732-18-5

#### **New Jersey Right to Know**

Ingredients methanol

The following materials are non-hazardous but are among the top five components in this product.

Chemical Name CAS-No. Water 7732-18-5

#### **California Prop 65 Components**

**WARNING:** This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ingredients methanol

## **Notification status**

**TSCA:** All components of the product are listed in the TSCA-inventory.

**DSL:** This product contains one or several components listed in the Canadian NDSL.

## **16. OTHER INFORMATION**

#### **Training Advice**

Provide adequate information, instruction, and training for operators.

#### **HMIS Ratings**

Health 3
Flammability 3
Reactivity 1
Personal Protection X

#### Volatile Organic Compounds, gr/ltr: 742

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, TERSUS ENVIRONMENTAL MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH VOC STANDARDS/REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

#### Full text of H-Statements referred to under sections 2 and 3.

- H225 Flammable liquid and vapor.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H370 Causes damage to organs.

#### Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02	GHS07	<u>(i)</u>
GHS05	GHS08	
GHS06		

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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 that the product as supplied by us is suitable to 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**