



MATERIAL SAFETY DATA SHEET

SECTION 1: Product and Company Identification

Product Name: Santimine 150 Sanitizing Tablets

Product Description: Solid blue odorless tablets

Product Use: Tablets are dissolved in water to provide a sanitizing solution for food contact surfaces that are utilized in the food service industry.

Manufacturer: Texas Gulf Industries, Inc.
4240 Shannon Drive, Suites A-C
Baltimore, Maryland 21213

Emergency Number: 800-424-9300 Chemtrec (24 hours)

SECTION 2: Composition/Information of Ingredients

Component	CAS Number	% of Product
n-alkyl (95% C14, 3% C12, 2% C16) dimethyl benzyl ammonium chloride monohydrate	8001-54-5	50
Proprietary mixture (inert)	Proprietary	50

This product is not considered hazardous under OSHA 29 CFR 1910.1210.

SECTION 3: Hazard Identification

EMERGENCY OVERVIEW

Danger: This product is a solid blue tablet. Causes severe eye and skin damage. Do not get in eyes, skin, or clothing. Harmful if swallowed.

- EYE CONTACT:** If tablet is crushed, dust may cause severe irritation. If tablet is in solution, contact may cause moderate to severe irritation. If irritation persists contact physician.
- SKIN CONTACT:** If tablet is crushed, dust may cause severe irritation. If tablet is in solution, contact may cause moderate to severe irritation. Prolonged contact may cause reddening, swelling, and ulceration.
- INHALATION:** If tablet is crushed avoid dust, irritation to nose, throat, and mucous membranes may be moderate to severe. May cause chemical burns to the respiratory tract.
- INGESTION:** If tablet is crushed Ingestion of dust or if in solution may cause moderate to severe irritation to the digestive tract. Excessive ingestion may cause chemical burns to the mouth, throat, and abdomen.

SECTION 4: First Aid Measures

- EYES:** Immediately flush dust from eyes with water for 15 minutes. If irritations persist, contact a physician.
- SKIN:** Wash with soap and water. If irritation or rash develops or persists, seek medical attention.
- INHALATION:** Remove from exposure to fresh air immediately. Treat symptomatically and supportively. If breathing problems develop or persist, seek medical attention.
- INGESTION:** If swallowed drink egg whites, gelatin solution, or if not available drink large quantities of water. Do not induce vomiting. If vomiting occurs, have victim lean forward to reduce risk of aspiration.
- NOTE TO PHYSICIAN:** Do not induce vomiting, probable mucosal damage. Treat symptomatically and supportively.

SECTION 5: Fire Fighting Measures

- FLASH POINT:** > 2000 °F
- FLASH POINT METHOD:** P.M.C.C.
- UPPER/LOWER FLAMMABLE LIMITS:** Not determined
- AUTOIGNITION TEMPERATURE:** Not determined
- FLAMMABILITY CLASSIFICATION:** Nonflammable

EXTINGUISHING MEDIA:

Use any extinguishing media appropriate for the surrounding fires.

Unusual Fire & Explosion Hazards:

None known

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear positive pressure, self-contained breathing apparatus (SCBA) where there is a likelihood of exposure to smoke or hazardous decomposition products.

HAZARDOUS DECOMPOSITION PRODUCTS:

Primary combustion products are CO, CO₂, and water. Other undetermined compounds could be released in small quantities, nitrogen oxides, and hydrogen chloride gas may be evolved.

SECTION 6: Accidental Release Measures

CONTAINMENT TECHNIQUES

When machined indoors, use local exhaust ventilation system to keep dust levels down.

CLEAN-UP PROCEDURES

Vacuum dust into an appropriately marked container for disposal. Avoid excessive accumulation of dust. Good housekeeping should be maintained to minimize dust accumulation and generation.

RESPONSE PROCEDURES:

Isolate area. Keep unnecessary personnel away.

SPECIAL PROCEDURES:

If tablets are crushed do not allow contact with skin or eyes. Avoid inhalation of dust.

SECTION 7: Handling and Storage

HANDLING

Wash thoroughly after handling. When handling, do not eat, drink, or smoke. If dust accumulates on clothes, launder before reuse. Handle in the presence of adequate ventilation. Good housekeeping should be maintained to minimize dust accumulation and generation.

STORAGE

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

OTHER PRECAUTIONS

Adhere to work practice rules established by government regulations.

SECTION 8: Exposure Control/Personal Protection

PERSONAL PROTECTION:

EYE PROTECTION:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

HAND PROTECTION:

Neoprene or appropriate protective gloves to prevent skin exposure.

RESPIRATORY PROTECTION:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI A88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING:

Wear long sleeved clothing.

ENGINEERING CONTROLS:

When machining indoors, maintain good air exchange to avoid dust accumulation.

ADDITIONAL PROTECTIVE MEASURES:

Educate and train employees in safe use of product. Wash hands before eating, smoking or using the restroom.

EXPOSURE LIMITS:

No exposure limits were found for this product or its components.

SECTION 9: Physical and Chemical Properties

<u>APPEARANCE:</u>	Solid	<u>BOILING POINT:</u>	Not applicable
<u>COLOR:</u>	Blue	<u>VAPOR PRESSURE:</u>	Not applicable
<u>ODOR:</u>	None	<u>Ph (1.7% solution):</u>	7.7
<u>SOLUBILITY IN WATER:</u>	1.69 g/100 ml	<u>% VOLATILE (VOLUME):</u>	Not determined
<u>DENSITY:</u>	1.31 g/ml	<u>FIBER DIAMETER:</u>	Not applicable

Section 10: Stability and Reactivity

STABILITY:

Stable

CONDITIONS TO AVOID:

Keep away from acids or other amines with pH > 7.

INCOMPATIBILITY:

Strong oxidizing agents

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen chloride gas will be evolved.

SECTION 11: Toxicological Information

Toxicological data is not available for the product as a whole however information on its components is as follows:

Cas # 8001-54-5:

ORAL, LD50 Rat = 240 mg/kg

Draize test, rabbit, eye: 1 mg/24 hour, Severe;

Draize test, rabbit, eye: 10 mg, Mild;

Draize test, rabbit, skin: 50 mg/24 hour, Moderate.

CARCINOGENICITY:

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

TERATOGENICITY:

Intravaginal, rat: TDLo = 100 mg/kg (female 1 day(s) after conception) Effects on embryo or fetus – fetal death; Intravaginal, rat: TDLo = 50 mg/kg (female 1 day(s) after conception) effects on embryo or fetus –fetotoxicity (except death, stunted fetus).

REPRODUCTIVE EFFECTS:

Intravaginal, rat: TDLo = 50 mg/kg (female 1 day after conception) Fertility- litter size;

Intravaginal, rat: TDLo = 100 mg/kg (female 1 day after conception) Fertility – post-implantation mortality (dead and/or resorbed implants per total number of implants).

MUTAGENICITY:

DNA Repair: *Bacillus subtilis* = 50 ug/L; Sister Chromatid Exchange: Hamster Embryo = 1 mg/L.

OTHER STUDIES:

Standard Draize test, human, skin = 150 ug/3D reaction was mild. Standard Draize test, human, eye = 50 ug reaction was severe.

Section 12: Ecological Information**AQUATIC TOXICITY**

Regarding Cas number 8001-54-5:

EC50, Daphnia, 48 hours = 0.12 mg/L;

LC50, Striped bass (larvae), 24 hours = 0.5 mg/L; (static)

EC50, Green algae, > 96 hours = 0.02 mg/L;

EC50, Photobacterium phosphoreum, 15 minutes = 1.5 mg/L (static).

ENVIRONMENTAL TOXICITY

Excessive exposure of tablets to waterways may disrupt water chemistry.

Section 13: Disposal Considerations**WASTE DISPOSAL:**

May be disposed of in ordinary municipal waste collection and disposal system in diluted form. Comply with all Federal, State, and Local Regulations.

RCRA STATUS:

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

SECTION 14: Transport Information

US D.O.T. Information: Not regulated as a hazardous material for transportation.

TDG Information: Not regulated as a hazardous material for transportation.

SECTION 15: Regulatory Information**INVENTORY STATUS:**

Cas # 8001-54-5 is not listed on the US EPA TSCA Inventory.

FEDERAL REGULATIONS:**Component Information:**

None of this products components are listed under SARA Section 302 (40CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SECTION 311/312

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactive Hazard:	No

Clean Air Act:

None of this product's components are listed on the Clean Air Act-1990 Hazardous Air Pollutants List.

STATE REGULATIONS:

Component	Cas #	CA	FL	MA	MN	NJ	PA
Alkyl (C14, 95%; C12, 3%; C16, 2%) dimethyl benzyl ammonium chloride dihydrate	8001-54-5	No	No	No	No	No	No

SECTION 16: Other Information

HMIS Rating:

Red (Flammability)	0
Yellow (Reactivity)	0
Blue (Acute Effects)	2
Personal Protection index	B

0 = Minimal 1 = Slight 2 = Moderate 3 = High 4 = Extreme
B = Safety glasses and gloves

NFPA 704 Rating:

Health	2
Flammability	0
Reactivity	0
Special Hazard	None

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

Judgments as to the suitability of information contained herein for purchaser's purposes are necessarily purchaser's sole responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Texas Gulf Industries extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purpose or for consequences for its use.

Date Approved:

Revision Date:

Reason for revision:

KEY/LEGEND: ACGIH TWA: American Conference of Governmental Industrial Hygienists-Time Weighted Average; CAA: Clean Air Act; CERCLA: Comprehensive Environmental Response, Compensation and Liability Act; DSL: Canadian Domestic Substance List; EPA: Environmental Protection Agency; DOT: Department of Transportation; DSL: Domestic Substance List; HMIS: Hazardous Material Information System; IARC: International Agency for Research on Cancer; NFPA: National Fire Protection Association; NIOSH: National Institute for Occupational Safety and Health; NTP: National Toxicology Program; OSHA: Occupational Safety and Health Association; SARA: Superfund Amendments and Reauthorization Act; TSCA: Toxic Substance Control Act; WHMIS: Workplace Hazardous Materials Information System