

TSGD (Tetrasodium Glutamate Diacetate)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 26-Dec-2025
Supersedes: 25-Jun-2025

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: TSGD (Tetrasodium Glutamate Diacetate)
Synonyms: No data available
INCI Name: Water, Tetrasodium Glutamate Diacetate
CAS Number: 7732-18-5, 51981-21-6
Formula: No data available
Product Form: Liquid
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: www.makingcosmetics.com

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Corrosive to metal - Category 1
Skin Corrosion/Irritation - Category 2
Eye irritation - Category 2

GHS Signal Word: **WARNING!**

GHS Hazard Pictograms:



GHS Hazard Statements: H290: May be corrosive to metals
H315: Causes skin irritation
H319: Causes serious eye irritation

GHS Precautionary Statements: P234: Keep only in original packaging.
P262: Do not get in eyes, on skin, or on clothing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+313: If eye irritation persists get medical advice/attention.
P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P390: Absorb spillage to prevent material damage.
P406: Store in a corrosion resistant container with a resistant inner liner.

Potential Health Hazards: Eyes: Causes serious eye irritation.
Inhalation: May be an irritant.
Skin: Causes skin irritation.
Ingestion: May cause nausea, vomiting, and diarrhea.

HMIS Ratings:

Health	3	Serious
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Water	7732-18-5	52.0 - 54.0	Not Available
Tetrasodium Glutamate Diacetate	51981-21-6	46.0 - 48.0	Not Available
Sodium hydroxide	1310-73-2	0.7 - 0.9	Not Available

4 FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water. Hold eyelids open while rinsing. Remove contact lenses, if present

Inhalation:	and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Remove person to fresh air and keep at rest in a position comfortable for breathing. Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Get medical attention if symptoms persist.
Skin:	In case of skin contact, wash thoroughly with soap and water. Take off immediately all contaminated clothing. Launder contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician or poison control center immediately.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperature. Use appropriate media (CO2, dry chemical, foam, water spray) for adjacent fire. Do not use direct water jet.
Special protective equipment & precautions for firefighters:	Wear self-contained breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots.
Flash Points:	No data available.
Specific hazards arising from the chemical:	Thermal decomposition may produce irritating gases, other toxic gases, and nitrous gas. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not breathe mist/vapors. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers of spilled material unless wearing protective clothing. Ensure adequate ventilation. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks.
Methods and material for containment and cleaning up:	Absorb with inert material and dispose of in accordance with applicable regulations. Soak up with an absorbent material. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Provide adequate ventilation. Normal precautions should be observed as for handling all chemicals. Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Wash hands thoroughly after handling. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.
Conditions for safe storage, incl. any incompatibilities:	Store in corrosive resistant container with a resistant inner liner. Store in original sealed container. Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep cool. Avoid contact with aluminum, zinc, nickel, copper and copper alloys in combination with humidity/water. Store in PVC, PE, stainless steel or bituminized tanks. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
TSGD	Not available		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes:	Wear safety glasses with side shields (or goggles) and a face shield. Do not get in eyes.
Inhalation:	Provide effective ventilation to draw fumes and vapors away from workers to prevent routine inhalation. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely.

Body: Wear appropriate chemical resistant clothing and gloves.
Other: Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	Vapor Pressure:	Same as water
Odor:	Slight ammonia	Vapor Density (Air=1):	Same as water at 20 °C)
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	Light yellow	Flammability:	Non-flammable.
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	11-12.0	Flash Point:	No data available
Boiling Range:	221-230 °F (105-110 °C)	Specific Gravity:	1.41 to 1.46 g/cm ³
Melting/Freezing Point:	<5 °F (-15 °C) [crystallization point]	Solubility:	Miscible with water
Relative Density:	No data available	Auto-Ignition Temperature:	Not self-igniting
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	No data available
Viscosity:	Approx. 200 mPa.S at 25 °C	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Freezing Point:	No data available

10 STABILITY AND REACTIVITY

Reactivity: No data available.
Chemical Stability: No data available.
Hazardous Polymerization: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid: Do not expose to heat.
Incompatible Materials: Strong oxidizing agents. Strong acids. Strong bases. Materials to avoid: copper, aluminum, zinc, copper alloys, nickel.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide (CO₂), nitrogenous substances.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: (Oral, Rat) Acute oral toxicity; LD50: >2000 mg/kg.
 (Rat) Acute dermal toxicity, LD50: > 2000 mg/kg.
 (Rat) Acute inhalation toxicity, OECD 403, LC50: > 4.2 mg/L air.
Skin: Not irritating. No toxic effects if absorbed.
Eyes: Not irritating.
Respiratory: Not classified.
Ingestion: No toxic effects.
Carcinogenicity: Not classified.
Teratogenicity: No data available.
Germ Cell Mutagenicity: Not classified as a mutagen.
Embryotoxicity: No data available.
Specific Target Organ Toxicity: No data available.
Reproductive Toxicity: Not classified.
Sensitization: Not sensitizing. No adverse effect observed.
Chronic (Long Term) Effects: Based on available data, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12 ECOLOGICAL INFORMATION

Ecotoxicity
Aquatic Vertebrate: (Fish) LC50; 72hr: >100 mg/L.
Aquatic Invertebrate: (Daphnia) EC50; 48hr: >100 mg/L.
Terrestrial: No data available.
Persistence and Degradability: Readily biodegradable.
Bioaccumulative Potential: log Kow <3.
Mobility in Soil: Absorption coefficient (Koc): < 32 (HPLC, OECD TG 121) (Log Koc <1.5).

PBT and vPvB Assessment: No data available.
Other Adverse Effects: No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers: Empty containers may contain product residue which may exhibit hazards of the product. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA): Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
 Contains: SODIUM HYDROXIDE
 Hazard Class: 8
 ID Number: UN3267
 Packaging Group: III

TDG (Transportation of Dangerous Goods, Canada): No data available.
IMDG (International Maritime Dangerous Goods): No data available.
IATA (International Air Transport Association): No data available.
ICAO (International Civil Aviation Organization): No data available.

15 REGULATORY INFORMATION

TSCA Status: All substances contained in this product are listed on the TSCA inventory or are exempt
SARA Title III Section 304: No chemicals in this material are subject to the reporting requirements for extremely hazardous substances.
SARA Title III Section 311/312: Not listed under acute, chronic, fire, pressure, or reactive.
SARA Title III Section 313: Sodium Hydroxide.
CERCLA Section 102: Sodium Hydroxide Reportable Quantity: 1000
Clean Air Act Section 112: Not regulated.
California Prop. 65: This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DSL (Canada): All components are listed.
EU EINECS: All components are listed.
Australia AICS: All components are listed.
Philippines PICCS: All components are listed.
Korea KECI: All components are listed.
New Zealand NZIoC: All components are listed.

16 OTHER INFORMATION

Revision Date: 26-Dec-2025
Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.