




SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier	GDN101
Common names or synonyms	GDN
Supplier	Anatrace Products, LLC
Address	434 West Dussel Dr
Telephone	Maumee, OH
Fax	(419) 740-6600
Email	customerservice@anatrace.com
Emergency phone number	Chemtrec (800) 424-9300 Outside USA & Canada (703) 527-3887 Chemtrec ID# 696910
Chemical Characterization	Steroid
Recommended use of chemical	For research use only.
Restrictions on use	Not intended for diagnostic or therapeutic use. Not for human and animal use.

2. HAZARD(S) IDENTIFICATION

Hazard classification	Classification of the substance or mixture according to Regulation (EC) No 1272/2008 Acute toxicity, oral (Category 5) Acute toxicity, dermal (Category 5) Acute toxicity, inhalation (Category 5) Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
Signal word	Warning
Hazard statements	H303: May be harmful if swallowed H313: May be harmful in contact with skin H333: May be harmful if inhaled H335: May cause respiratory irritation
Pictograms	Caution: substance not yet fully tested. 



Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.

Hazards not otherwise classified

R:42/43 May cause sensitization by inhalation and skin contact.
R:36/37/38 May be irritating to eyes, respiratory system and skin.
S:22 Do not breathe dust.
S:24 Avoid contact with skin.
S:36/37 Wear suitable protective clothing and gloves

Percentage of mixture containing ingredients with unknown toxicity

0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical name	Glyco- diosgenin	Weight %	≥97%
CAS number	1402423-29-3		

Other name(s)	GDN
Chemical Formula	C ₅₆ H ₉₂ O ₂₅

EC Number	N/A
Impurities and stabilizing additives	N/A

<u>Other components</u>	None
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NOTE: Components not identified are not hazardous or are below regulatory disclosure limits.

4. FIRST-AID MEASURES

GENERAL ADVICE: Seek medical advice if irritation persists.

EYES: Flush with water thoroughly for 15 minutes, lifting upper and lower lids occasionally. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

INGESTION: Drink plenty of water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical attention

Wash contaminated clothing before reuse.

Symptoms and effects

N/A

Medical Care

Refer to physician. Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing equipment	Use water fog, dry powder, carbon dioxide or alcohol resistant foam.
Inappropriate extinguishing equipment	NA
Flash point and method	No information available.
Hazards when burning	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Carbon oxides
Special instructions for firefighters	No information available.
Firefighting equipment	Wear NIOSH (or equivalent) approved self-contained breathing apparatus and wear full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid dust formation. Avoid breathing vapors, mist or gas. Wear suitable gloves, chemical safety goggles, lab coat. NIOSH- approved respirator. Avoid contact with skin and eyes. Keep container tightly closed. Keep container in a well-ventilated place. Mechanical exhaust required.
Emergency procedures	Do not allow material to enter drains.
Containment	Wear lab coat, safety glasses, heavy rubber gloves, rubber boots and NIOSH- approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation.
Clean-up procedures	Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves, and NIOSH- approved respirator. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling	Exercise caution when handing contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Use adequate ventilation at places when dust is formed.
Storage	Light sensitive. Air sensitive.

Keep in closed or covered containers when not in use.
Store at -20°C away from moisture with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits (PELs)	Not established
American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLVs)	Not established
Other recommended exposure limits	This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
Engineering controls	Showers Eyewash stations Ventilation systems
Personal protective measures	
Eye/Face Skin and Body Respiratory	Chemical splash goggles Wear protective gloves and adequate clothing. NIOSH-approved respirator.
Requirements for personal protective equipment	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid, powder	Color	White
Odor	No information	Odor threshold	No information available
pH	NA	Flash point	Not applicable
Melting point	No data available	Freezing point	No information available
Initial boiling point	No information available	Boiling range	Not applicable
Evaporation rate	No information available	Flammability	No information available
Upper flammability	No data available	Lower flammability	No data available
Vapor pressure	No data available.	Vapor density	No information available
Relative density	No data available	Viscosity	No data available
Solubility	Methanol, chloroform	Partition coefficient	No data available



Auto-ignition temperature

No information available

Decomposition temperature

No information available

10. STABILITY AND REACTIVITY

Reactivity	Product is stable. Hazardous decomposition products include carbon oxides. Hazardous polymerization will not occur.
Chemical stability	Stable
State in normal ambient temperature and conditions	Stable.
Necessary stabilizers	None.
Safety issues if product changes physical appearance	N/A
Other	
Possibility of hazardous reactions	Hazardous polymerization will not occur under standard conditions.
Conditions to be avoided	Keep away from heat and flame
Incompatible materials	Incompatible with strong oxidizing agents.
Known or anticipated hazardous decomposition products	Hazardous decomposition products include carbon oxides.

11. TOXICOLOGICAL INFORMATION

Effects of exposure	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Routes of exposure	May be harmful by inhalation, ingestion, or skin absorption
Short-term exposure	EYES: Causes eye and skin irritation. SKIN: Prolonged or repeated skin contact may result in irritation. There are no other known acute effects associated with this material.
Long-term exposure	No information available
Medical conditions aggravated by exposure	No information available
Toxicity	
Acute Toxicity	No data is available on the product itself. May be harmful by inhalation, ingestion, skin adsorption.
Chronic Toxicity	No information available

Symptoms	No information available
Carcinogen or potential carcinogen	No information available.
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ toxicity - single exposure	No information available.
Specific target organ toxicity - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Persistence/degradability	No information available
Bioaccumulation potential	No information available
Potential for soil to groundwater movement	No information available
Other adverse effects	No information available

13. DISPOSAL CONSIDERATIONS

Disposal	Dispose of in accordance with local regulations. Offer rinsed packaging material to local recycling facilities
Appropriate containers	No information available
Appropriate methods	No information available
Physical and chemical properties affecting disposal	No information available
Precautions for landfills or incineration activities	No information available



RCRA hazardous waste code N/A

Special instructions No information available

NOTE: Chemicals should not be disposed of in or near sewers and waterways.

14. TRANSPORT INFORMATION

UN number	Not regulated	UN proper shipping name	Not regulated
Transport hazard classes			
Department of Transportation hazard class	Not regulated	Transportation of Dangerous Goods hazard class	Not regulated
Packing group number	No information available		
Environmental hazards	No information available		
Guidance on transport in bulk	No information available		
Special transport or conveyance precautions	None		

15. REGULATORY INFORMATION

OSHA regulatory status (29 CFR 1910.1200)	SARA 302 - No applicable information. SARA 313 - This material is not reportable under 313. California Proposition 65 - No applicable information
Department of Transportation regulations	Not regulated under current DOT, IMO or ICAO regulations RCRA - No applicable information.
Environmental Protection Agency regulations	TSCA Inventory Status Listed No applicable information
Consumer Product Safety Commission regulations	No applicable information.

16. OTHER INFORMATION

Abbreviations	ACGIH = American Conference of Governmental Industrial Hygienists. NIOSH- The National Institute for Occupational Safety and Health HMIS – Hazardous Material Identification System RTECS = Registry of Toxic Effects of Chemical Substances. IARC = International Agency for Research on Cancer. EPA = Environmental Protection Agency. RCRA -Resource Conservation and Recovery Act
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SARA -Superfund Amendments and Reauthorization Act
NTP = National Toxicology Program Annual Report on Carcinogens.
LC50-Lethal Concentration to 50 % of a test population
LD50-- Lethal Dose to 50% of a test population
OECD - Organization for Economic Co-operation and Development
TSCA - Toxic Substances Control Act (United States).

Creation 2/14/2019

Latest revision 11/20/2020

SDS number GDN101

Disclaimer The above information is believed correct but is not guaranteed to be all-inclusive and shall only be used as a guide. The Company shall not be held liable for any damage resulting from handling or contact with the above product.