


SAFETY DATA SHEET

DODECYLGUADININE HYDROCHLORIDE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	13590-97-1
EC number:	237-030-0
1.2 SYNONYMS:	<ul style="list-style-type: none"> • Dodecylguanidine monohydrochloride • Metasoldgh • Guanidine

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	<p>Labelling according to Regulation (EC) No 1272/2008</p> <p>Acute toxicity, Oral (Category 4)</p> <p>Acute toxicity, Inhalation (Category 2)</p> <p>Skin corrosion, (Category 1B)</p> <p>Serious eye damage, (Category 1)</p> <p>Hazardous to the aquatic environment, short-term (Category 1)</p> <p>Hazardous to the aquatic environment, (long-term) (Category 1)</p>
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	<p>H302: Harmful if swallowed</p> <p>H314: Causes severe skin burns and eye damage</p> <p>H330: Fatal if inhaled</p>

	H410: Very toxic to aquatic life with long lasting effects
Precautionary Statements:	<p>P264: Wash thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P260: Do not breathe dust/fume/gas/mist/vapours/spray</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P273: Avoid release to the environment.</p> <p>P301+P317: IF SWALLOWED: Get medical help.</p> <p>P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P316: Get emergency medical help immediately.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P317: Get medical help.</p> <p>P391: Collect spillage.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents/ container to an approved waste disposal plant.</p>

2.3 Other hazards:	
Inhalation:	may cause respiratory tract irritation, coughing, and difficulty breathing.
Ingestion:	may cause gastrointestinal irritation, nausea, vomiting, and potential toxicity.
Skin Contact:	may cause irritation, redness, and possible allergic reactions with prolonged or repeated exposure.
Eye contact:	may cause severe irritation, redness, pain, and potential damage to eye tissues.
Chronic Exposure:	may lead to persistent skin or respiratory irritation and potential sensitization with repeated contact.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as skin disorders, respiratory illnesses (e.g., asthma), or eye conditions due to its irritating properties.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 13590-97-1 DODECYLGUADININE HYDROCHLORIDE
Identification number(s):	EC number: 237-030-0

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give

	artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects, both acute and delayed, include skin and eye irritation, respiratory discomfort, gastrointestinal distress, and potential allergic sensitization with repeated contact.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide, dry chemical, Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

	Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with 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. Wash and dry hands.
	Eye protection: Required

Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Powder
Colour:	White to off-white
Odour:	Slight amine-like
pH-value:	7
Melting point/Melting range:	-78°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Non-flammable
Ignition temperature:	No data available
Decomposition temperature:	350°C
Self-igniting:	None
Flash point:	167°C
Danger of explosion:	No data available
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	3.74 mmHg (at 25°C)
Density at 20 °C:	0.95 g/cm ³
Relative density:	0.95
Vapour density:	3.5
Evaporation rate:	Not determined
Solubility in / Miscibility with- -water at 20 °C:	Fully soluble
Partition coefficient:(n- octanol/water)	5.38
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	Diisopropyl ether is highly flammable and may form explosive peroxides on prolonged exposure to air or light.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	May react with strong oxidizers, acids or bases to form heat.
10.4 Conditions to avoid	Excessive heat, open flames, spark, Prolonged exposure to air and sunlight
10.5 Incompatible materials	Strong oxidizing agents, strong acids and bases, Acid chlorides and acid anhydrides, Copper and its alloys
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide, Hydrogen chloride (HCl) gas, Ammonia

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): no data available LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes severe burns
Serious eye damage/irritation:	Causes eye damage
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available

Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Moderately biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
12.2 Persistence and degradability:	Moderately Biodegradable
12.3 Bioaccumulative potential:	high bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, isopropanol, sand, mild alkaline cleaning agents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2811
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	DODECYLGUADININE HYDROCHLORIDE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	6.1
14.4 Packing group · ADR, IMDG, IATA:	1
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as environmentally hazardous substances.
Named dangerous substances:	This substance is listed in the part 2 annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information.

However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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