

Safety Data Sheet per OSHA HazCom 2012



Product name: Aminoguanidine nitrate, (10% water)	
	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
For safety reasons unsuitable extinguishing agents Halocarbon extinguisher Special hazards arising from the substance or mixture	
This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. If this product is involved in a fire, the following can be released:	
Carbon monovide and carbon diovide	
Nitrogen oxides (NOX) Advice for firefighters	
Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation.	
Prevention of secondary hazards: Acts as an oxidizing agent on organic materials such as wood, paper and fats	
Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material. Reference to other sections	
Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling Precautions for safe handling	
Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Information about protection against explosions and fires: Protect from heat.	
Substance/product can reduce the ignition temperature of flammable substances. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility:	
Store away from flammable substances.	
Store away from reducing agents. Do not store with organic materials.	
Store away from metal powders. Further information about storage conditions:	
Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
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8 Exposure controls/personal protection Additional information about design of technical systems:	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters	
Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls	
Personal protective equipment General protective and hygienic measures	
The usual precautionary measures for handling chemicals should be followed.	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:	
Impervious gloves Check protective gloves prior to each use for their proper condition.	
Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses	
Eye protection. Safety glasses	(Contd. on page 3)

Product name: Aminoguanidine nitrate, (10% water)

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Body protection: Protective work clothin	ng.	(Conta: or page 2)
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Crystalline White Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	138-142 °C (280-288 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Contact with combustible material may cause fire. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Heating may cause an explosion. Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Soluble Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity		
Reactivity Heating may cause an explosion. May intensify fire; oxidizer. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with reducing agents Reading agents Reducing agents Reacts with relevant information available.		
11 Toxicological information		
Reproductive toxicity: No effects know, Specific target organ system toxicity - Specific target organ system toxicity - Aspiration bazard: No effects known	in irritation. ious eye irritation. wn. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	

12 Ecological information

Ecological information
Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Do not allow material to be released to the environment without proper governmental permits.
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
Avoid transfer into the environment.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Waste treatment methods Brecommended cleaning agent. Waik, if neasoary with cleaning agents. 14 Transport information DOT, IMOG, IATA UN-Number DOT, IMOG, IATA UN proper shipping name MMD, IATA OVT OT <	on 01/08/2009
Other adverse effects No further relevant information available. 13 Disposal considerations Wask treatment methods Recommended for Disposal must be made according to official regulations to ensure proper disposal. Uncleared packagings: Recommended in Disposal must be made according to official regulations. Recommended dismain agent: Water. In necessary with internation appoints. UN-Number DOT, MOG, IATA UN1473 UN-proper shipping name Coddings addit, n.o.s. (Aminoguanidine nitrate, (10% water)) MMCD, IATA UN1473 UN-proper shipping name Coddings addit, n.o.s. (Aminoguanidine nitrate, (10% water)) MMCD, IATA UN1473 ODT OxiDiziNG SOLID. N.O.S. (Animoguanidine nitrate, (10% water)) MMCD, IATA OxIDiziNg substances. Class 5.1 Oxidising substances. 5.1 Oxidising substances.	
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Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, p market and use must be observed. Substance is not substance is not listed.	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	USA

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16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (IATA)
ICAO: The retinational Civil Aviation Organization
ICAO: The retinational Kir Transport Association
ICAO: The retinational Maritime Code for Dangerous Goods
DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Air Transport Association
IATA: International Agences of percent
UATA: International Agences

USA