

Safety Data Sheet M012405 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/24/2017 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Subs	tance		
Substance name		esium chloride, anhydrous		
CAS No	: 7786			
Product code	: M012			
Formula	: CI2M			
Synonyms		a Iogene		
Other means of identification	-	D00011106		
1.2. Relevant identified uses of the subs		•		
Use of the substance/mixture	Manu	ratory chemicals ifacture of substances itific research and development		
1.3. Details of the supplier of the safety	data she	et		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.co	<u>m</u>			
1.4. Emergency telephone number				
Emergency number	: (844)	523-4086 (3E Company - Account 1006	9)	
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or n	nixture			
Classification (GHS-US)				
Not classified				
2.2. Label elements				
GHS-US labeling				
No labeling applicable				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
	n on in	gradianta		
SECTION 3: Composition/informatic	on on in	greatents		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Magnesium chloride, anhydrous (Main constituent)		(CAS No) 7786-30-3	<= 100	Not classified
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek r e possible). Move the affected personnel		
First-aid measures after inhalation	: Rem	by possible). Move the affected personner by person to fresh air and keep comforta ration. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get medi	cal advice/atter	ntion.
First-aid measures after eye contact	: Imme	diately flush eyes thoroughly with water f int and easy to do. Continue rinsing. Get	or at least 15 m	inutes. Remove contact lenses, if
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First-aid measure	s after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most in	nportant symptoms and effe	cts, both acute and delayed
Symptoms/injurie		: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.3. Indicat	on of any immediate medica	al attention and special treatment needed
Treat symptomati	cally.	
SECTION 5: F	Firefighting measures	
	uishing media	
Suitable extinguis		: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Specia	hazards arising from the su	bstance or mixture
Fire hazard		: Thermal decomposition generates: Hydrogen chloride. Magnesium oxide.
5.3. Advice	for firefighters	
Firefighting instru	•	: In case of fire: Evacuate area.
Protection during		: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: A	Accidental release mea	sures
6.1. Person	al precautions, protective ec	uipment and emergency procedures
General measure	S	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For nor Emergency proce	n-emergency personnel dures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For em	orgonov rospondors	
Protective equipm	ergency responders nent	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Enviro	nmental precautions	
Avoid release to t	he environment. Notify authori	ties if product enters sewers or public waters.
6.3. Method	Is and material for containme	ent and cleaning up
For containment		: Stop leak if safe to do so.
Methods for clear	ing up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information		: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Refere	nce to other sections	
No additional info		
	landling and storage	
	tions for safe handling	. Do not handle until all cofety pressuitions have been read and understand. Ensure read
Precautions for sa	ne nanuling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
	S	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Hygiene measure		ng any incompatibilities
	ons for safe storage, includi	
7.2. Conditi		: Comply with applicable regulations.
7.2. Conditi Technical measur	es	
Hygiene measure 7.2. Condition Technical measure Storage condition Incompatible mate Incompatible mate	es s	: Comply with applicable regulations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties
Physical state	: Solid
Appearance	: Colorless, very deliquescent flakes or crystals.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 714 °C
Freezing point	: No data available
Boiling point	: 1412 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 9 hPa (at 20 °C (solution in water 33 % w/w)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 2.32 g/ml (@ 25 °C)
Molecular mass	: 95.21 g/mol
Solubility	: Water: 5425 g/l (at 20 °C)
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2 Other information	

Other information 9.2.

No additional information available

SECTIC	ON 10: Stability and reactivity
10.1.	Reactivity
No additio	onal information available
10.2.	Chemical stability
The produ	uct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additio	onal information available
10.4.	Conditions to avoid
Keep awa	ay from heat, sparks and flame.
10.5.	Incompatible materials
Strong ox	kidizing agents.

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Magnesium chloride, anhydrous (7786-30-3)	
LD50 oral rat	2800 mg/kg
ATE US (oral)	2800.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information 12.1. Toxicity Magnesium chloride, anhydrous (7786-30-3) LC50 fish 1 1970 - 3880 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) EC50 Daphnia 1 140 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) 12.2. Persistence and degradability No additional information available 12.3. **Bioaccumulative potential** No additional information available **Mobility in soil** 12.4. No additional information available Other adverse effects 12.5. No additional information available

SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport informa	tion
Department of Transportation (DOT)	

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

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Air transport

No additional information available

SECTION 15: Regulatory information
15.1. US Federal regulations
Magnesium chloride, anhydrous (7786-30-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA Magnesium chloride, anhydrous (7786-30-3) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

National regulations

Magnesium chloride, anhydrous (7786-30-3)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.