Conforms: GHS (rev 3)(2009)

(This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS)

(29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision : 11/25/2014

Date of previous issue : 12/16/2013

Version : 3.0



# SAFETY DATA SHEET

**Ammonium Nitrate 33.5-0-0** 

# Section 1. Identification

**Product name** : Ammonium Nitrate 33.5-0-0

Product type : Solid (granulates)

Product code : PA107G

<u>Uses</u>

**Area of application** : Professional applications

Material uses : Fertilizers.

Supplier

Supplier's details : Yara North America, Inc.

<u>Address</u>

Street: 100 North Tampa Street, Suite 3200

Postal code : 33602 City : TAMPA Country : United States

Telephone number : +1 813 222 5700 Fax no. : +1 813 875 5735 e-mail address of person : yna-hesq@yara.com

responsible for this SDS

Emergency telephone number : US: Chemtrec 24-hours Emergency Response: 1-800-424-

(with hours of operation) 99

Canada: 24 Hour Emergency Service, (Canutec 613-996-

6666)

National advisory body/Poison Center

Name : The National Poisons Emergency number

**Telephone number** : 1 800 222 1222

# Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

<u>Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.</u>

Classification of the : OXIDIZING SOLIDS - Category 3

substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**GHS label elements** 

Hazard pictograms





Signal word : Warning

**Hazard statements** : May intensify fire; oxidizer.

Causes serious eye irritation.

### **Precautionary statements**

Prevention : Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Store away from combustible materials and chemicals. Wear eye protection.

**Response**: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

In case of fire: Use flooding quantities of water to extinguish.

Hazards not otherwise

classified

: Product forms slippery surface when combined with water.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product / ingredient name	CAS number	%
Nitric acid ammonium salt (1:1)	CAS: 6484-52-2	>=90 - <100
Nitric acid, magnesium salt (2:1)	CAS: 10377-60-3	>=2 - <3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Rinse with plenty of running water. Check for and remove any

contact lenses. If irritation persists, get medical attention.

**Inhalation** : If inhaled, remove to fresh air. In case of inhalation of

decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

**Skin contact**: Wash with soap and water. Get medical attention if irritation

develops.

Ingestion : Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so

by medical personnel.

## Most important symptoms/effects, acute and delayed

Date of issue: 11/25/2014 Page:2/17

# Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to

be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training. It may be dangerous to the person providing

aid to give mouth-to-mouth resuscitation.

See toxicological information (section 11)

# Section 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing

media

Specific hazards arising from the chemical

Use flooding quantities of water for extinction.

Do NOT use chemical extinguisher or foam or attempt to

smother the fire with steam or sand.

: Oxidizing material. May intensify fire. The product itself is not combustible but it can support combustion, even in absence of

air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia. It has high resistance to detonation. Heating under strong confinement can lead to explosive

behaviour.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

nitrogen oxides metal oxide/oxides

Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move

Date of issue : 11/25/2014 Page:3/17

containers from fire area if this can be done without risk. Use

water spray to keep fire-exposed containers cool.

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

**Remark** : Non-flammable.

Remark : None.

# Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and material for containment and cleaning up

Small spill

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container.

Date of issue : 11/25/2014 Page:4/17

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

# Occupational exposure limits

None.

# Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures

: A washing facility or water for eye and skin cleaning purposes should be present.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles

## Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

> 8 hours (breakthrough time): Protective gloves should be worn under normal conditions of use.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is

Date of issue : 11/25/2014 Page:5/17

necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Personal protective equipment : (Pictograms)

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid [granulates]

Color : White.
Odor : Odorless.

Odor threshold : Not determined.

**pH** : 4.7 - 6 [Conc.: 100 g/l]

**Melting/freezing point** : 160 - 170 °C (320.00 - 338.00 °F)

Boiling/condensation point : Not determined.

Sublimation temperature : Not determined.

Flash point : Not determined.

Evaporation rate : Not determined.

Flammability : Non-flammable.

Lower and upper explosive

(flammable) limitsUpper: Not determined.Vapor pressure: Not determined.Bulk density: 1,000 - 1,050 kg/m3

Relative density : Not determined.

**Solubility** : Soluble in the following materials:

cold water

Lower: Not determined.

Partition coefficient: n-

octanol/water

: Not determined.

Auto-ignition temperature :

**Decomposition temperature** 

Not determined.

Viscosity : Dynamic: Not determined. : Kinematic: Not determined.

**Explosive properties** : None. Oxidizing properties : Oxidizer

# Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this

product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Hazardous reactions or instability may occur under certain

conditions of storage or use.

Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing or intensifying fire

Date of issue: 11/25/2014 Page:6/17

Conditions to avoid : Avoid contamination by any source including metals, dust and

organic materials.

**Incompatible materials**: Reactive or incompatible with the following materials:

alkalis

combustible materials reducing materials organic materials

acids

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

# **Section 11. Toxicological information**

# Information on toxicological effects

# **Acute toxicity**

Product / ingredient name	Result	Species	Dose	Exposure	References
Nitric acid amm	onium salt (1:1)				
	LD50 Oral	Rat	2,950 mg/kg OECD 401	-	IUCLID 5
	LD50 Dermal	Rat	> 5,000 mg/kg OECD 402	-	IUCLID 5
Nitric acid, mag	nesium salt (2:1)				
	LD50 Oral	Rat	> 2,000 mg/kg 423 Acute Oral toxicity - Acute Toxic Class Method	-	IUCLID 5
	LD50 Dermal	Rat	> 5,000 mg/kg OECD 402	-	IUCLID 5

**Conclusion/Summary** : No known significant effects or critical hazards.

# **Irritation/Corrosion**

Product / ingredient name	Result	Species	Score	Exposur e	Observatio n	References
Nitric acid ammonium salt (1:1)	Eyes - Irritant OECD 405	Rabbit			-	IUCLID 5
Nitric acid, magnesium salt (2:1)	Eyes - Irritant OECD 405	Rabbit		72 h	-	IUCLID 5

## **Conclusion/Summary**

**Skin** : No known significant effects or critical hazards.

**Eyes** : Causes serious eye irritation.

**Respiratory** : No known significant effects or critical hazards.

**Sensitization** 

Date of issue: 11/25/2014 Page:7/17

Conclusion/Summary

Skin : Not sensitizing
Respiratory : Not sensitizing

**Mutagenicity** 

Conclusion/Summary : No mutagenic effect.

Carcinogenicity

# **Classification**

Product / ingredient name	OSHA	IARC	NTP
Nitric acid ammonium salt (1:1)		2A	

Nitric acid,	2A	
magnesium salt (2:1)		

## **Conclusion/Summary**

There is inadequate evidence in humans and in animals for the carcinogenicity of nitrate in food. Nitrate can be reduced to form nitrite and under acidic gastric conditions nitrite may react to generate N-nitroso compounds (endogenous nitrosation). Under conditions that result in endogenous nitrosation ingested nitrate is classified IARC Group 2A. The product is not to be ingested.

# **Reproductive toxicity**

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Nitric acid ammonium salt (1:1)	-	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5
Nitric acid, magnesium salt (2:1)	-	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5

**Conclusion/Summary**: No known significant effects or critical hazards.

**Teratogenicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

# Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

# Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Date of issue : 11/25/2014 Page:8/17

# **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation**: Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

# Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Adverse health effects are considered unlikely, when the

product is used according to directions.

Potential delayed effects : breathing difficulty or shortness of breath

**Long term exposure** 

Potential immediate effects : Adverse health effects are considered unlikely, when the

product is used according to directions.

Potential delayed effects : None identified.

### Potential chronic health effects

Product / ingredient name	Result	Species	Dose	Exposure	References
Nitric acid ammonium salt (1:1)	NOAEL Oral	Rat	256 mg/kg OECD 422	28days	IUCLID 5
Nitric acid ammonium salt (1:1)	NOEC Dusts and mists Inhalation	Rat	> 185 mg/kg OECD 412	2weeks 5 hours per day	IUCLID 5
Nitric acid, magnesium salt (2:1)	NOAEL Oral	Rat	> 1500 mg/kg OECD 422	28days	IUCLID 5

Date of issue : 11/25/2014 Page:9/17

Conclusion/Summary : Not toxic.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

# **Section 12. Ecological information**

# **Toxicity**

Product / ingredient name	Result	Species	Exposure	References
Nitric acid ammonium sal	t (1:1)	•		
	Acute LC50 447 mg/l Fresh water	Fish - Labeo boga	48 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Aquatic invertebrates Daphnia	48 h	IUCLID 5
	Acute EC50 1,700 mg/l Salt water	Aquatic plants - Heterosigma akashiwo	10 d	IUCLID 5
Nitric acid, magnesium sa	alt (2:1)			
	Acute LC50 1,378 mg/l Fresh water OECD 203	Fish - Labeo boga	96 h	IUCLID 5
	Acute LC50 490 mg/l Fresh water	Aquatic invertebrates Daphnia	48 h	IUCLID 5
	Acute LC50 > 1,700 mg/l Fresh water	Aquatic plants - Heterosigma akashiwo	240 h	IUCLID 5

Conclusion/Summary : Not toxic.

Persistence/degradability

**Conclusion/Summary**: Readily biodegradable in plants and soils.

Date of issue : 11/25/2014 Page:10/17

Product / ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nitric acid ammonium salt (1:1)			
			Not relevant for
			inorganic
			substances.

### Bioaccumulative potential

**Conclusion/Summary** : The product does not show any bioaccumulation

phenomena.

Not available.

**Mobility in soil** 

Soil/water partition coefficient (KOC) Mobility

OC)

: This product may move with surface or groundwater flows

because its water solubility is: high

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Product**

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# United States - RCRA Acute hazardous waste "P" List:

Not listed

## <u>United States - RCRA Toxic hazardous waste "U" List:</u>

Not listed

# Section 14. Transport information

Regulation: UN Class		
14.1 UN number	2067	
14.2 UN proper shipping name	AMMONIUM NITRATE BASED FERTILIZER	
14.3 Transport hazard class(es)	5.1	

Date of issue : 11/25/2014 Page:11/17

	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.
14.6 Additional information Environmental hazards	: No.

Regulation: IMDG	
14.1 UN number	2067
14.2 UN proper shipping name	AMMONIUM NITRATE BASED FERTILIZER
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	
14.6 Additional information	
IMDG Code Segregation	: SG02
<u>group</u>	
Emergency schedules (EmS)	: F-H, S-Q

Regulation: IATA			
14.1 UN number	2067		
14.2 UN proper shipping name	AMMONIUM NITRATE BASED FERTILIZER		
14.3 Transport hazard class(es)	5.1		
14.4 Packing group	III		
14.5 Environmental hazards			
14.6 Additional information			

Regulation: DOT Classification		
14.1 UN number	2067	
14.2 UN proper shipping name	AMMONIUM NITRATE BASED FERTILIZER ()	
14.3 Transport hazard class(es)	5.1	

Date of issue : 11/25/2014 Page:12/17

	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.
14.6 Additional information	
Environmental hazards	: No.
<u>Limited quantity</u>	: 0.00

Regulation: TDG Class	
14.1 UN number	2067
14.2 UN proper shipping name	AMMONIUM NITRATE BASED FERTILIZER
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.
14.6 Additional information Environmental hazards	: No.

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

**IMSBC** 

Group

**Bulk cargo shipping name** 

AMMONIUM NITRATE BASED FERTILIZER UN 2067

Class

Class 5.1: Oxidizing material.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not applicable.

# Section 15. Regulatory information

# **United States**

U.S. Federal regulations United States - TSCA 12(b) - Chemical export

**notification:** None of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(e) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not

listed

Date of issue: 11/25/2014 Page:13/17 United States - TSCA 4(f) - Priority risk review: Not

United States - TSCA 5(a)2 - Final significant new use

rules: Not listed

United States - TSCA 5(a)2 - Proposed significant new

use rules: Not listed

United States - TSCA 5(e) - Substances consent order:

Not listed

United States - TSCA 6 - Final risk management: Not

listed

United States - TSCA 6 - Proposed risk management:

Not listed

United States - TSCA 8(a) - Comprehensive

assessment report (CAIR): Not listed

United States - TSCA 8(a) - Chemical risk rules: Not

listed

United States - TSCA 8(a) - Dioxin/Furane precusor:

Not listed

United States - TSCA 8(a) - Chemical Data Reporting

(CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment

report (PAIR): Not listed

United States - TSCA 8(c) - Significant adverse

reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies:

Not listed

United States - EPA Clean water act (CWA) section

307 - Priority pollutants: Not listed

United States - EPA Clean water act (CWA) section

311 - Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 -

Accidental release prevention - Flammable

substances: Not listed

United States - EPA Clean air act (CAA) section 112 -Accidental release prevention - Toxic substances:

Not listed

United States - Department of commerce - Precursor

chemical: Not listed

Clean Air Act Section 112(b)

**Hazardous Air Pollutants** 

(HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

**Class II Substances** 

**DEA List I Chemicals** 

(Precursor Chemicals)

**DEA List II Chemicals** 

(Essential Chemicals)

Not listed

Not listed

Not listed

Not listed

Not listed

**SARA 302/304** 

Not applicable.

**SARA 304 RQ** Not applicable.

**SARA 311/312** 

Date of issue: 11/25/2014 Page:14/17 Classification : Fire hazard

Immediate (acute) health hazard

#### **SARA 313**

		Product name	CAS number	Concentration
Form R - Reporting requirements	:	Nitric acid ammonium salt (1:1)	6484-52-2	90 - 100
		Nitric acid, magnesium salt (2:1)	10377-60-3	2 - 3
Supplier notification	:	Nitric acid ammonium salt (1:1)	6484-52-2	90 - 100
		Nitric acid, magnesium salt (2:1)	10377-60-3	2 - 3

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**State regulations** 

Massachusetts : The following components are listed:

Nitric acid ammonium salt (1:1)
Nitric acid, magnesium salt (2:1)

New York : None of the components are listed.
New Jersey : The following components are listed:

Nitric acid, magnesium salt (2:1)
Nitric acid, calcium salt (2:1)

**Pennsylvania** : The following components are listed:

Nitric acid ammonium salt (1:1) Nitric acid, magnesium salt (2:1)

# California Prop. 65

This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

# **International lists**

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

# Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		0
Physical hazards		1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively

Date of issue : 11/25/2014 Page:15/17

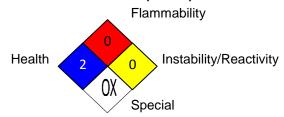
## from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### **Chronic toxicity:**

- -: No data available.
- \*: Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

# National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

# Key to abbreviations

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor

bw = Body weight

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

NOHSC - National Occupational Health and Safety Commission

RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

UN = United Nations

# **References** : EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,

Canada.

# **History**

Date of printing : 02/09/2015
Date of issue/Date of revision : 11/25/2014
Date of previous issue : 12/16/2013

Date of issue: 11/25/2014 Page:16/17

Version : 3.0

Prepared by : Yara Product Classifications & Regulations.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue : 11/25/2014 Page:17/17