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 : 12/05/2014

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Version : 1.1



SAFETY DATA SHEET

Odorlos Dry (granular)

Section 1. Identification

Product name : Odorlos Dry (granular)

Other means of identification : Nitric acid, ammonium calcium salt

Product type : Solid (granules)

Product code : PA3411

<u>Uses</u>

Area of application : Industrial applications

Supplier

Supplier's details : Yara North America, Inc.

Section 2. Hazards identification

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

Communication Standard (29 CFR 1910.1200).

Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.

Classification of the : ACUTE TOXICITY (oral) - Category 4

substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : Harmful if swallowed.

Causes serious eye damage.

Precautionary statements

Prevention : Wear protective gloves and eye protection. Do not eat, drink

or smoke when using this product. Wash hands thoroughly

after handling.

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

Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER or

doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Hazards not otherwise

classified

: Product forms slippery surface when combined with water.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

CAS number/other identifiers

Other means of identification : Nitric acid, ammonium calcium salt

CAS number : 15245-12-2

Product / ingredient name	CAS number	%
Nitric acid, ammonium calcium salt	CAS: 15245-12-2	100

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 : Immediately flush eyes with plenty of water for at least 15

minutes, keeping eyelids open. Check for and remove any

contact lenses. Get medical attention immediately.

Inhalation : If inhaled, remove to fresh air. Get medical attention

immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained

breathing apparatus.

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

develops.

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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. Get medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or

corrosive to the respiratory system. 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: Harmful if swallowed. May cause burns to mouth, throat and

stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

stomach pains

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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing

it, or wear gloves.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Hazardous thermal decomposition products

Use flooding quantities of water for extinction.

Do NOT use chemical extinguisher or foam or attempt to

smother the fire with steam or sand.

No specific fire or explosion hazard.

Avoid breathing dusts, vapors or fumes from burning

materials.

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In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Remark : Non-flammable substance.

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.

Special protective equipment for fire-fighters

Remark

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: 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. 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. 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. Approach release from spill area.

: Move containers from spill area. 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 get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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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. Store locked up. 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

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

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., Viton, neoprene

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

: In case of inadequate ventilation wear respiratory protection.

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Recommended: Approved/certified disposable particulate dust mask.

Personal protective equipment

(Pictograms)



Section 9. Physical and chemical properties

Appearance

Physical state : Solid [granules]

 Color
 : White.

 Odor
 : Odorless.

 Odor threshold
 : Not determined.

 pH
 : 5 - 7 [Conc.: 110 g/l]

Melting/freezing point : 400 °C (752.00 °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) limits Upper: Not determined.

Vapor pressure: Not determined.Relative density: Not determined.

Solubility : 100 g/l @ 20 °C(68.00 °F)

Easily soluble in the following materials:

cold water

Solubility in water : > 100 g/l

Partition coefficient: n-

octanol/water

: Not determined.

Auto-ignition temperature : Not determined.

Decomposition temperature : Not determined.

Viscosity

Dynamic: Not determined. **Kinematic:** Not determined.

Lower: Not determined.

Explosive properties : None.
Oxidizing properties : None.

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

Under normal conditions of storage and use, hazardous

reactions will not occur.

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

organic materials.

Incompatible materials : alkalis

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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 calcium sa	ilt		•	•
	LD50 Oral	Rat	500 mg/kg 423 Acute Oral toxicity - Acute Toxic Class Method	-	IUCLID 5
	LD50 Dermal	Rat	> 2,000 mg/kg OECD 402	-	IUCLID 5

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposur e	Observatio n	References
Nitric acid, ammonium calcium salt	Eyes - Severe irritant OECD 405	Rabbit		24 - 72 h	21 d	IUCLID 5

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : Causes serious eye damage.

Respiratory : No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin: Not sensitizingRespiratory: Not determined.

Mutagenicity

Conclusion/Summary : No mutagenic effect.

Carcinogenicity

Conclusion/Summary : No carcinogenic effect.

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Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Nitric acid, ammonium calcium salt	Negative	Negative	Negative	Rat	Oral: 1500 mg/kg OECD 422	53 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.

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 damage.

Inhalation : May give off gas, vapor or dust that is very irritating or

corrosive to the respiratory system. 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 : Harmful if swallowed. May cause burns to mouth, throat and

stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

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Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Product / ingredient name	Result	Species	Dose	Exposure	References
Nitric acid, ammonium calcium salt	NOAEL Oral	Rat	> 1000 mg/kg OECD 407	28days	IUCLID 5

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

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 watering redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

stomach pains

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product / ingredient	Result	Species	Exposure	References
name				
Nitric acid, ammonium ca	lcium salt			
	Acute LC50 447	Fish - Labeo	48 h	IUCLID 5
	mg/l Fresh water	boga		
	Acute EC50 > 100	Aquatic	48 h	IUCLID 5
	mg/l Fresh water	invertebrates.		
	OECD 202	- Daphnia		
	Acute LC50 > 100	Aquatic plants	72 h	IUCLID 5
	mg/l Fresh water	- Heterosigma		
	OECD 201	akashiwo		
	Acute EC50 >	Micro-	3 h	IUCLID 5
	1,000 mg/l	organism		
	Activated sludge			
	OECD 209			

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Odorlos Dry (granular)

Conclusion/Summary

No known significant effects or critical hazards.

Persistence/degradability

Conclusion/Summary: Readily biodegradable in plants and soils.

Product / ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nitric acid, ammonium calciun	n salt		
			Not relevant for
			inorganic
			substances.

Bioaccumulative potential

Product / ingredient name	LogPow	BCF	Potential
Nitric acid, ammonium calcium salt	< 0	-	low

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

Mobility in soil

Soil/water partition coefficient (KOC)

: < 1

Mobility

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

United States - RCRA Toxic hazardous waste "U" List:

Not listed

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Section 14. Transport information

Regulation: UN Class		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards	No.	
14.6 Additional information Environmental hazards	: No.	

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	
14.6 Additional information	•

Regulation: IATA			
Not regulated.			

Regulation: DOT Classification		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards	No.	
14.6 Additional information		
Environmental hazards	: No.	

Regulation: TDG Class		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		

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14.4 Packing group	
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.

Remark

NOT A DOT REGULATED PRODUCT. 49 CFR 172.102 Special provision 34 specifically removes the calcium nitrate double salt (calcium nitrate and ammonium nitrate) from the hazardous materials table 49 CFR 172.101.

IMSBC

Bulk cargo shipping name

Class Not applicable.

Group С

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

CALCIUM NITRATE FERTILIZER

United States - TSCA 4(f) - Priority risk review: Not

listed

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

Date of issue: 12/05/2014 Page:12/15 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)

(Essential Chemicals)

Not listed

Not listed

Not listed

Not listed

DEA List II Chemicals Not listed

SARA 302/304

Not applicable.

SARA 304 RQ Not applicable.

SARA 311/312

Classification Immediate (acute) health hazard

State regulations

Massachusetts None of the components are listed. **New York** None of the components are listed. New Jersev None of the components are listed. Pennsylvania None of the components are listed.

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.

Korea inventory: 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.

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Section 16. Other information

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

Health	-	2
Flammability		0
Physical hazards		0

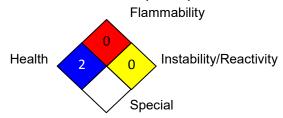
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully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

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.)



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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

Odorlos Dry (granular)

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.

History

Date of printing: 12/05/2014Date of issue/Date of revision: 12/05/2014Date of previous issue: 02/05/2014Version: 1.1

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.

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