

# SAFETY DATA SHEET

Creation Date 21-Oct-2010

Revision Date 25-Apr-2019

Revision Number 5

1. Identification

# Product Name

AC205960000; AC205960010; AC205960050; AC205962500

CAS-No Synonyms

Cat No. :

7631-99-4 Chile saltpeter.; Cubic niter; Soda niter

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use

# Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Sodium nitrate

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Category 3

Category 2

Category 2

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Serious Eye Damage/Eye Irritation Specific target organ toxicity - (repeated exposure) Target Organs - Liver, Heart, Blood.

# Label Elements

Signal Word Warning

#### **Hazard Statements**

May intensify fire; oxidizer Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure



# Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Wear protective gloves/protective clothing/eye protection/face protection

## Response

Get medical attention/advice if you feel unwell

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

# Eyes

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 advice/attention

# Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed

## Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component		CAS-No	Weight %			
Sodium nitrate		7631-99-4	>95			
	4.	First-aid measures				
General Advice If symptoms persist, call a physician.						
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.					
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.					
Ingestion	Do not induce vomiting. Obtain medical attention.					
Most important symptoms and	None reason	ably foreseeable.				
effects Notes to Physician	Treat sympto	omatically				

	<b>U</b>	ng measures	
Suitable Extinguishing Media	Substance is nonflammab	le; use agent most appropriate to	o extinguish surrounding fire.
Unsuitable Extinguishing Media	Carbon dioxide (CO2)		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits Upper Lower Oxidizing Properties	No data available No data available Oxidizer		
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available		
<b>Specific Hazards Arising from the</b> Oxidizer: Contact with combustible/or Thermal decomposition can lead to re	ganic material may cause fi		d paper, oil, clothing, etc.).
Hazardous Combustion Products Sodium oxides Nitrogen oxides (NOx Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ons for Firefighters	demand, MSHA/NIOSH (approve	ed or equivalent) and full
NFPA Health 2	Flammability 0	Instability 2	Physical hazards OX
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		on. Use personal protective equip onment. See Section 12 for addit	
Methods for Containment and Clea Up	<b>n</b> Sweep up or vacuum up s formation.	pillage and collect in suitable cor	ntainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		equipment. Ensure adequate ver ingestion and inhalation. Avoid c stible materials.	
Storage	Keep containers tightly clo combustible materials.	osed in a dry, cool and well-ventil	ated place. Do not store near
8. E	xposure controls	/ personal protectio	n
Exposure Guidelines		tain any hazardous materials wit gion specific regulatory bodies.	h occupational exposure
Engineering Measures		ons and safety showers are close on, especially in confined areas.	e to the workstation location.
Personal Protective Equipment			

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Solid Crystalline White Odorless No information available 5.5-8 5% aq. solution 306 °C / 582.8 °F 380 °C / 716 °F No information available Not applicable No information available

No data available No data available No information available Not applicable No information available No information available No data available

380 °C Not applicable N Na O3 84.99

# 10. Stability and reactivity

Reactive Hazard	Yes					
Stability	Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic.					
Conditions to Avoid	Avoid dust formation. Incompatible products. Combustible material. Excess heat. Exposure to air or moisture over prolonged periods.					
Incompatible Materials	Strong oxidizing agents, Strong reducing agents, Combustible material					
Hazardous Decomposition Products Sodium oxides, Nitrogen oxides (NOx)						
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					
	11. Toxicological information					

Acute Toxicity

**Product Information** 

#### Component Information

Component	ent LD50 Oral LD50 Dermal		LC50 Inhalation
Sodium nitrate	>2000 mg/kg ( Rat )	Not listed	Not listed
Toxicologically Synergistic	No information available		

# Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

#### Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Sodium nitrate	7631-99-4	Not listed	Not listed	Not listed	Not listed	Not listed		
IARC: (Internationa	al Agency for Res							
		Group 1 - Carcinogenic to Humans						
		Group 2A - Probably Carcinogenic to Humans						
Group 2B - Possibly Carcinogenic to Humans Mutagenic Effects No information available								
Reproductive Effects		No information ava	ailable.					
	-							
Developmental Effect	ets	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single expos	ure	None known						
STOT - repeated exp		Liver Heart Blood						
Aspiration hazard		No information available						
Symptoms / effects.	both acute and	d No information available						
delayed								
Endocrine Disruptor	Information	No information available						
Other Adverse Effec	ts	The toxicological p	properties have no	t been fully investig	jated.			

# 12. Ecological information

## Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium nitrate	-	LC50: 994.4 - 1107 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 2000 mg/L, 96h static (Lepomis macrochirus)	-	6000 mg/L 24h

Persistence and Degradability

**Degradability** Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Sodium nitrate	-3.8

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT	
UN-No	UN1498
Proper Shipping Name	SODIUM NITRATE
Hazard Class	5.1
Packing Group	III
<u>TDG</u>	
UN-No	UN1498
Proper Shipping Name	SODIUM NITRATE
Hazard Class	5.1
Packing Group	III
<u>IATA</u>	
UN-No	UN1498
Proper Shipping Name	SODIUM NITRATE
Hazard Class	5.1
Packing Group	III
IMDG/IMO	1014 400
UN-No	UN1498
Proper Shipping Name	SODIUM NITRATE
Hazard Class	5.1
Packing Group	
	15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Sodium nitrate	7631-99-4	Х	ACTIVE	-

#### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Sodium nitrate	7631-99-4	Х	-	231-554-3	Х	Х	Х	Х	KE-31545

## U.S. Federal Regulations

## SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium nitrate	7631-99-4	>95	1.0

# SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)	Not applicable
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Clean Air Act	Not applicable
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<b>OSHA</b> - Occupational Safe Health Administration	ety and No	t applicable			
CERCLA	Nc	t applicable			
California Proposition 65	5 Th	is product does not conta	in any Proposition 65 o	chemicals	
U.S. State Right-to-Know Regulations					
Component	Massachuset	ts New Jersey	Pennsylvania	Illinois	Rhode Island
component	maccaemacea				
Sodium nitrate	X	X	X	Х	X

# U.S. Department of Homeland Security

This product contains the following DHS chemicals: **Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Sodium nitrate	Theft STQs - 400lb

#### Other International Regulations

Mexico - Grade

# No information available

16. Other information		
Prepared By	Regulatory Affairs	
	Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Creation Date	21-Oct-2010	
Revision Date	25-Apr-2019	
Print Date	25-Apr-2019	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**