

SAFETY DATA SHEET

1. Identification

Product identifier	soda ash	
Other means of identification Synonyms	DISODIUM CARBONATE * Sodium carbonate	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	CETCO, an MTI Company 2870 Forbs Avenue Hoffman Estates, IL 60192 United States	
Telephone Website E-mail	General Information http://www.cetco.com/ safetydata@mineralstech.co	800 527-9948 om
Emergency phone number Supplier	Emergency Not available.	1.866.519.4752/1 760 476 3962

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation Category 2	
Environmental hazards	Not classified.	

Label elements



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Signal word	Warning	
Hazard statement	Causes serious eye irritation.	
Precautionary statement		
Prevention	Wash thoroughly after handling. Wear eye protection/face 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 advice/attention.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Other hazards	None known.	
Supplemental information	100 % of the mixture consists of component(s) of unknown acute dermal toxicity. 100 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 100 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.	

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Sodium carbonate	DISODIUM CARBONATE soda ash SODIUM CARBONATE ANHYDROUS	497-19-8	100

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Additional components	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.
Canada. British Columbia Safety Regulation 296/97,	OELs. (Occupational Exposure Limits as amended)	for Chemical Substances, (Occupational Health and
Additional components	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Canada. Ontario OELs. (Co Additional components	ontrol of Exposure to Biological or Ch Type	emical Agents) Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	inistry of Labor - Regulation respectin		* ·
Additional components	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	10 mg/m3	Total dust.
ological limit values	No biological exposure limits noted for	or the ingredient(s).	
dividual protection measure	exposure limits have not been establ material is ground, cut, or used in an exhaust ventilation to keep exposure station. s, such as personal protective equipm	y operation which may genera s below the recommended exp	te dusts, use appropriate lo
Eye/face protection	Wear safety glasses with side shields		
Skin protection			
Hand protection	Wear appropriate chemical resistant	gloves.	
Other	Wear suitable protective clothing.		
Respiratory protection	Wear respirator with dust filter.		
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
eneral hygiene nsiderations	Always observe good personal hygiene measures, such as washing after handling the materia and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
Physical and chemical	properties		
pearance			
Physical state	Solid.		
Form	Powder.		
Colour	Colourless. white		
lour	Odourless.		
lour threshold	Not available.		
I	11.3 - 11.5 (1% aqueous solution)		
elting point/freezing point	851 °C (1563.8 °F)		
tial boiling point and boiling nge	1600 °C (2912 °F)		

Material name: soda ash

Flash point Evaporation rate Not available.

Not available.

	Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits		
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.
	Explosive limit - lower (%)	Not available.
	Explosive limit – upper (%)	Not available.
	Vapour pressure	< 0.0000001 kPa at 25 °C
	Vapour density	Not available.
	Relative density	Not available.
	Solubility(ies)	
	Solubility (water)	Not available.
	Partition coefficient (n-octanol/water)	Not available.
	Auto-ignition temperature	Not available.
	Decomposition temperature	400 °C (752 °F)
	Viscosity	Not available.
	Other information	
	Bulk density	> 1 g/cm3 @ 20 °C
	Density	2.53 g/cm3 estimated
	Explosive properties	Not explosive.
	Molecular formula	C-Na2-O3
	Molecular weight	105.99
	Oxidising properties	Not oxidising.
	Specific gravity	2.4 - 2.53 @ 20 C
	10 Chability and we attribut	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system.	
Skin contact	Dust or powder may irritate the skin.	
Eye contact	Causes serious eye irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.	

Information on toxicological effects

Acute toxicity

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Not known.

Components	Species	Test results
Sodium carbonate (CAS 497-19-8)	
<u>Acute</u>		
Oral		
LD50	Rat	4090 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitisation	า	
Respiratory sensitisation	Not a respiratory sensitizer	
Skin sensitisation	This product is not expected to cause skin sensitisation.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not available.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test results		
soda ash					
Aquatic					
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours		
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours		
Components		Species	Test results		
Sodium carbonate (CAS 497	-19-8)				
Aquatic					
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours		
rsistence and degradability	No data is available on the degradability of this substance.				
accumulative potential	No data available.				
bility in soil	No data available.				
ner adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.				
. Disposal consideratio	ns				
posal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.				
cal disposal regulations	Dispose in accordance with all applicable regulations.				
zardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.				
ste from residues / unused oducts	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).				
ntaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.				

14. Transport information

TDG

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable. Rotterdam Convention

Not applicable.

Kyoto protocol

Not overlight

Not applicable. Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

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Revision date	13-April-2018
Version No.	05

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Revision information

Product and Company Identification: Product and Company Identification