

Univar USA Inc Safety Data Sheet

SDS No:		
Version No:	003 2015-07-29	
Order No:		

3075 Highland Pkwy, Ste 200, Downers Grove, IL 60515 (425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

-

- Trade name
- Chemical Name
- Synonyms

SODA SOLVAY ® DENSE Sodium carbonate Dense Sodium Carbonate/Soda Ash Na2CO3

Molecular formula

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance / Mixture

- Glass industry
- Detergent
- Chemical industry
- Metallurgy.
- Purifying flue gas

1.3 Details of the supplier of the safety data sheet

<u>Company</u>

SOLVAY CHEMICALS, INC. 3333 RICHMOND AVENUE 77098-3099, HOUSTON USA Tel: +1-800-7658292; +1-713-5256800 Fax: +1-713-5257804

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Eye irritation, Category 2A

H319: Causes serious eye irritation.

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)



- H319

P00000000753 Version : 1.03 / US (Z8) Causes serious eye irritation.



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Precautionary	Statements
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<u>Prevention</u> - P264 - P280	Wash skin thoroughly after handling. Wear eye protection/ face protection.
<u>Response</u>	
- P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313	If eye irritation persists: Get medical advice/ attention.

Additional Labeling

- The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 1 %

2.3 Other hazards which do not result in classification

None identified

3.1 Substance

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Carbonic acid sodium salt (1:2)	497-19-8	>= 99

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

3.2 Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures

4.1 Description of first-aid measures

In case of inhalation

- Move to fresh air.
- If symptoms persist, call a physician.

In case of skin contact

- Wash off with soap and water.
- If symptoms persist, call a physician.

In case of eye contact

- In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a specialist.

In case of ingestion

- Rinse mouth with water.
- Do NOT induce vomiting.
- If symptoms persist, call a physician or Poison Control Center immediately.



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4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Symptoms

- At high concentrations:
- Cough

Effects

- May cause nose, throat, and lung irritation. *Repeated or prolonged exposure*

- Risk of sore throat, nose bleeds

In case of skin contact

Effects

- Prolonged skin contact may cause skin irritation.

In case of eye contact

Symptoms

- Redness
- Lachrymation
- Swelling of tissue

Effects

- Severe eye irritation

In case of ingestion

Symptoms

- Severe irritation
- Nausea
- Abdominal pain
- Vomiting
- Diarrhea

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- None.

SECTION 5: Firefighting measures		
Flash point	Not applicable	
Autoignition temperature	Not applicable	
<u>Flammability / Explosive limit</u>	no data available	
5.1 Extinguishing media		
Suitable extinguishing media		
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		

Unsuitable extinguishing media

- None.



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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

- Not combustible.

Hazardous combustion products:

- none

5.3 Advice for firefighters

Special protective equipment for fire-fighters

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

- Avoid dust formation.

Advice for emergency responders

- Sweep up to prevent slipping hazard.

6.2 Environmental precautions

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- Prevent any mixture with an acid into the sewer/drain (gas formations).
- Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

- Sweep up and shovel into suitable containers for disposal.
- Keep in properly labeled containers.
- Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Ensure adequate ventilation.
- Minimize dust generation and accumulation.
- Avoid contact with skin and eyes.
- Keep away from incompatible products





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Hygiene measures

- Eye wash bottles or eye wash stations in compliance with applicable standards.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Store in original container.
- Keep in a dry place.
- Keep in properly labeled containers.
- Keep container closed.
- Keep away from:
- Incompatible products

Packaging material

- Suitable material
- Polyethylene
- Woven plastic material.

Unsuitable material

Material moisture permeable

7.3 Specific end use(s)

- Contact your supplier for additional information
- This grade of the product is not intended for pharmaceutical, feed or food applications.

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Components with workplace occupational exposure limits

Ingredients	Value type	Value	Basis
Carbonic acid sodium salt (1:2)	TWA	10 mg/m3	Solvay Acceptable Exposure Limit

8.2 Exposure controls

Control measures

Engineering measures

- Provide appropriate exhaust ventilation at places where dust is formed.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures



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Respiratory protection

- Effective dust mask
- Use only respiratory protection that conforms to international/ national standards.
- Use NIOSH approved respiratory protection.

Hand protection

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Wear suitable gloves.
- Suitable material
- Neoprene
- Natural Rubber

Eye protection

- Safety goggles

Skin and body protection

- Dust impervious protective suit
- Rubber or plastic boots
- Rubber or plastic apron

Hygiene measures

- Eye wash bottles or eye wash stations in compliance with applicable standards.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	<u>Form</u> : <u>Physical state:</u> <u>Color</u> :	powder solid white white
Particle size	> 125 µm (85 -	90 %)
<u>Odor</u>	odorless	
Odor Threshold	no data available	9
<u>рН</u>	11.2(4 g/l)(77 11.3(10 g/l)(7	
	<u>pKa:</u> 6.4	
	10.3	
Melting point/range	1564 °F (851 °C))



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	Boiling point/boiling range	Not applicable	
	Flash point	Not applicable	
	Evaporation rate (Butylacetate = 1)	Not applicable	
	Flammability (solid, gas)	Not applicable	
	Flammability / Explosive limit	Explosiveness: Not applicable	
	Autoignition temperature	Not applicable	
	Vapor pressure	negligible	
	Vapor density	Not applicable	
	<u>Density</u>	Bulk density: 0.97 - 1.10 kg/dm3 Method: Free flow	
	<u>Solubility</u>	<u>Relative density</u> : 2.53 (68 °F (20 °C)) <u>Water solubility :</u> 71 g/l (32 °F (0 °C)) 212.5 g/l (68 °F (20 °C))	
	Partition coefficient: n-octanol/water	Not applicable	
	Thermal decomposition	> 752 °F (> 400 °C)	
	<u>Viscosity</u>	Viscosity, dynamic : Not applicable	
	Explosive properties	no data available	
	Oxidizing properties	Not considered as oxidizing.	
9.2	Other information <u>Molecular weight</u>	106 g/mol	

SECTION 10: Stability and reactivity

10.1 Reactivity

- Decomposes by reaction with strong acids.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions



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- no data available

10.4 Conditions to avoid

- Exposure to moisture.

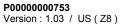
10.5 Incompatible materials

- Finely divided aluminum

10.6 Hazardous decomposition products

- none

SECTION 11: Toxicological information	ion
1.1 Information on toxicological effects	
Acute toxicity	
Acute oral toxicity	LD50: 2,800 mg/kg -Rat , male and female The product has a low acute toxicity Unpublished reports
Acute inhalation toxicity	no data available
Acute dermal toxicity	LD50 : > 2,000 mg/kg - Rabbit Method: according to a standardized method Not classified as hazardous for acute dermal toxicity according to GHS. No mortality observed at this concentration. Unpublished reports
Acute toxicity (other routes of administration)	no data available
Skin corrosion/irritation	
	Rabbit Not classified as irritating to skin Method: OECD Test Guideline 404 Unpublished reports
Serious eye damage/eye irritation	
	Rabbit Irritating to eyes. Method: according to a standardized method Unpublished reports
Respiratory or skin sensitization	no data available





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<u>Mutagenicity</u>			
Genotoxicity in vitro			
	By analogy		
	Ames test		
	with metabolic activation		
	Product is not considered to be genotoxic Published data		
	Strain: Escherichia coli without metabolic activation		
	negative		
	Product is not considered to be genotoxic Published data		
Genotoxicity in vivo	no data available		
Carcinogenicity	no data available		
NTP IARC OSHA ACGIH	esignated as probable or suspected human carcinogens by:		
Toxicity for reproduction and developm			
Toxicity to reproduction / fertility	no data available		
Developmental Toxicity/Teratogenicity			
	Mouse , female Application Route: Oral		
	NOAEL teratogenicity: >= 580 mg/kg		
	NOAEL maternal: >= 580 mg/kg		
	Method: according to a standardized method no embryotoxic or teratogenic effects have been observed	1	
	Unpublished reports	I	
<u>STOT</u>			
STOT-single exposure			
	The substance or mixture is not classified as specific targe	et organ toxicant	, single
	exposure. internal evaluation		
STOT-repeated exposure			
	The substance or mixture is not classified as specific targe repeated exposure. internal evaluation	st organ toxicant	,
Aspiration toxicity	no data available		



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SECTION 12: Ecological informa	tion
2.1 Toxicity	
Aquatic Compartment	
Acute toxicity to fish	
	LC50 - 96 h : 300 mg/l - Lepomis macrochirus (Bluegill sunfish)
	static test Analytical monitoring: no
	Method: according to a standardized method Not harmful to fish (LC50 > 100 mg/L)
	Published data
Acute toxicity to daphnia and ot	ther aquatic invertebrates.
	EC50 - 48 h : 200 - 227 mg/l - Ceriodaphnia dubia (water flea)
	semi-static test Method: according to a standardized method
	Not harmful to aquatic invertebrates. (EC50 > 100 mg/L)
	Published data
2.2 Persistence and degradability <u>Abiotic degradation</u>	
Photodegradation	
	hydrolyzes
	Test substance: Water carbonic acid/bicarbonate/carbonate
	acid/base equilibrium as a function of pH
Biodegradation	
Biodegradability	Not applicable, inorganic substance
Degradability assessment	
	The product is not considered to be rapidly degradable in the environment
2.3 Bioaccumulative potential	
-	
Bioconcentration factor (BCF)	Not applicable, inorganic substance



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12.4 Mobility in soil	
Adsorption potential (Koc)	Air Not applicable
	Solubility(ies) Water
	Mobility Water
	Soil/sediments not significant
12.5 Results of PBT and vPvB assessment	
	Not applicable, inorganic substance
12.6 Other adverse effects	no data available
Ecotoxicity assessment	
Acute aquatic toxicity	Not harmful to aquatic life (LC/EC50 > 100 mg/L)
Chronic aquatic toxicity	Not classified due to data which are conclusive although insufficient for classification.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Contact waste disposal services.
- If recycling is not practicable, dispose of in compliance with local regulations.
- Dilute with plenty of water.
- Neutralize with acid.
- In accordance with local and national regulations.

Waste Code

- RCRA Hazardous Waste (40 CFR 302)
- Hazardous Waste NO

Advice on cleaning and disposal of packaging

- Where possible recycling is preferred to disposal or incineration.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.



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SECTION 14: Transport information

DOT

not regulated

TDG

not regulated

NOM

not regulated

IMDG not regulated

IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	One or more components not listed on inventory
Mexico INSQ (INSQ)	- In compliance with the inventory
Canadian Domestic Substances List (DSL)	- One or more components not listed on inventory
New Zealand. Inventory of Chemical Substances	- In compliance with the inventory
Australia Inventory of Chemical Substances (AICS)	- One or more components not listed on inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- One or more components not listed on inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- One or more components not listed on inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	One or more components not listed on inventory



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15.2 Federal Regulations

US. EPA EPCRA SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355) No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355) This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355) This material does not contain any components with a section 304 EHS RQ.

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

15.3 State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

NFPA (National Fire Protection Association) - Classification

Health Flammability Instability or Reactivity Special Notices 2 moderate 0 minimal 0 minimal None

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	2 moderate
Flammability	0 minimal
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

Further information

- Product evaluated under the US GHS format.

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- ACGIH American Conference of Governmental Industrial Hygienists
- OSHA Occupational Safety and Health Administration
- NTP National Toxicology Program
- IARC International Agency for Research on Cancer
- NIOSH National Institute for Occupational Safety and Health

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may



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not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.



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For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

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