SAFETY DATA SHEET



1. Identification

Product identifier Champions Choice® Trace Mineral with Selenium

Other means of identification

SDS number NC13

Synonyms Champions Choice Trace Mineral with Selenium. * Champions Choice® Trace Mineral Salt with

Selenium. * Sodium Chloride (Salt) with Trace Minerals. * Champions Choice® Sheep Salt with

Selenium.

Recommended use Salt is intended for animal food (agricultural) applications.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameCargill IncorporatedAddressMinneapolis, MN 55440

Telephone 1-888-385-7258
Website www.cargillsalt.com

Emergency telephone

number

CHEMTREC (800) 424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May cause an allergic skin reaction.

Precautionary statement

Prevention Avoid breathing dust/fume. Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

Response If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical description Alkali Metal/Halide

Chemical name	CAS number	%
Sodium Chloride	7647-14-5	98.116-98.13
Ferrous Carbonate	563-71-3	0.53
Zinc oxide	1314-13-2	0.49

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1344-43-0	0.33
10102-18-8	0.23
1309-37-1	0.112-0.252
7758-98-7	0-0.12
8042-47-5	0.02
7789-80-2	0.01
513-79-1	0.01
	0.01
68921-42-6	<=0.01
	10102-18-8 1309-37-1 7758-98-7 8042-47-5 7789-80-2 513-79-1

4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact

attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if Ingestion

symptoms occur.

Most important symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation. Rash. Dermatitis. May cause an allergic skin reaction.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically. 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

Unsuitable extinguishing

media

Specific hazards arising from

the chemical Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

During fire, gases hazardous to health may be formed such as: Carbon oxides (COx). Hydrogen

chloride gas. Metal oxides. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

This product is not flammable or combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Provide adequate ventilation. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid contact with water and

moisture. Keep away from strong acids. Practice good housekeeping.

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). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

8. Exposure controls/personal protection

Oc

US. OSHA Table Z-1 Limits for Air Cont Components	Type	Value	Form
ron oxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Manganese oxide (CAS 1344-43-0)	Ceiling	5 mg/m3	
Sodium Selenite (CAS 10102-18-8)	PEL	0.2 mg/m3	
White mineral oil (Viscosity >7 =<20.5 mm2/s) (CAS 8042-47-5)	PEL	5 mg/m3	Mist.
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
JS. OSHA Table Z-3 (29 CFR 1910.1000))		
Components	Туре	Value	Form
ron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
JS. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Cobalt carbonate (CAS 513-79-1)	TWA	0.02 mg/m3	
Copper Sulfate (CAS 7758-98-7)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
FD & C Blue 1I (CAS 68921-42-6)	TWA	1 mg/m3	Respirable fraction.
Ferrous Carbonate (CAS 663-71-3)	TWA	1 mg/m3	
ron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Manganese oxide (CAS 344-43-0)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
Sodium Selenite (CAS 10102-18-8)	TWA	0.2 mg/m3	
White mineral oil (Viscosity -7 =<20.5 mm2/s) (CAS 3042-47-5)	TWA	5 mg/m3	Inhalable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
JS. NIOSH: Pocket Guide to Chemical I	Hazards		
Components	Туре	Value	Form
Copper Sulfate (CAS	TWA	1 mg/m3	Dust and mist.

US. NIOSH:	Pocket	Guide to	Chemical	Hazards
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Components	Туре	Value	Form
		0.1 mg/m3	Fume.
FD & C Blue 1I (CAS 68921-42-6)	TWA	2 mg/m3	
Ferrous Carbonate (CAS 563-71-3)	TWA	1 mg/m3	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Manganese oxide (CAS 1344-43-0)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Sodium Selenite (CAS 10102-18-8)	TWA	0.2 mg/m3	
White mineral oil (Viscosity >7 =<20.5 mm2/s) (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.

Biological limit values

ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
Cobalt carbonate (CAS 513-79-1)	15 μg/l	Cobalt	Urine	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Unvented, tight fitting goggles should be worn in dusty areas.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator

if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Green colored granular solid or compressed 50-pound blocks. (Sheep Salt is red in color.)

Physical state Solid.

Form Colored crystalline solid.

Color Greenish-brown.

Odor Not available.

Odor threshold Not available.

рΗ Not available.

1473.8 °F (801 °C) Melting point/freezing point

Initial boiling point and boiling 2669 °F (1465 °C) (760 mmHg) (760 mm Hg)

range

Flash point Not available. Not available. **Evaporation rate** Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure 2.4 mm Hg (1376.6 °F (747 °C))

Not available. Vapor density 2.16 (H2O = 1)Relative density

Solubility(ies)

26.4 % Solubility (water)

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

Other information

70 - 83 lb/ft³ **Bulk density**

NaCl and Trace Minerals (including Selenium) Molecular formula

58.44 Molecular weight 6.7 - 10pH in aqueous solution

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Incompatible materials Avoid contact with strong acids. Becomes corrosive to metals when wet.

Hazardous decomposition

products

At high temperatures, decomposition may result in formation of oxides of the trace minerals

present in the salt.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation.

Skin contact May cause an allergic skin reaction. If applied to damaged skin, absorption can occur with effects

similar to those via ingestion.

Eve contact Dust in the eyes will cause irritation. Expected to be a low ingestion hazard. Ingestion

Champions Choice® Trace Mineral with Selenium 922324 Version #: 02 Revision date: 21-May-2018 Issue date: 14-September-2014 Symptoms related to the physical, chemical and toxicological characteristics

Rash. Dermatitis. May cause an allergic skin reaction. May cause minor irritation on eye contact. Exposure may cause temporary irritation, redness, or discomfort. For ingestion, consuming less than a few grams would not be harmful. The following effects were observed after ingesting an excessive quantity: nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral edema (fluid on brain), pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells). Death is generally due to cardiovascular collapse or CNS damage.

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction. In some cases of confirmed hypertension, ingestion may

result in elevated blood pressure.

Components Species Test Results

Copper Sulfate (CAS 7758-98-7)

Acute Oral

LD50 Rat 300 mg/kg

Sodium Chloride (CAS 7647-14-5)

Acute Oral

LD50 Rat 3000 mg/kg

White mineral oil (Viscosity >7 =<20.5 mm2/s) (CAS 8042-47-5)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation Aerosol

LC50 Rat > 5 mg/l

Oral

LD50 Rat > 5000 mg/kg

Zinc oxide (CAS 1314-13-2)

Acute Oral

LD50 Rat > 5 g/kg

Skin corrosion/irritation

Serious eye damage/eye Dust in the eyes will cause irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

Prolonged skin contact may cause temporary irritation.

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Iron oxide (CAS 1309-37-1)

3 Not classifiable as to carcinogenicity to humans.

Sodium Selenite (CAS 10102-18-8)

3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Cobalt carbonate (CAS 513-79-1) Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - Not classified.

single exposure

Specific target organ toxicity - Not classified.

repeated exposure

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Due to the physical form of the product it is not an aspiration hazard.

12. Ecological information

Harmful to aquatic life with long lasting effects. **Ecotoxicity**

Components		Species	Test Results
Copper Sulfate (CAS	7758-98-7)		
Aquatic			
Crustacea	EC50	Amphipod (Crangonyx pseudogracilis)	2.21 - 2.72 mg/l, 48 hours
		Calanoid copepod (Acartia clausi)	0.034 mg/l, 48 hours
	LC50	Water flea (Ceriodaphnia dubia)	0.0091 mg/l, 96 hours
White mineral oil (Visc	cosity >7 =<20.5 m	m2/s) (CAS 8042-47-5)	
Aquatic			
Acute			
Crustacea	LL50	Invertebrates (Invertebrates)	100 mg/l
Fish	LL50	Fish	10 mg/l
Zinc oxide (CAS 1314	-13-2)		
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	0.098 mg/l, 48 Hours
		9.11 0 1 1199 60 1 0	

Persistence and degradability

No data is available on the degradability of this product.

No data available. Bioaccumulative potential Mobility in soil No data available. Other adverse effects None known.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Cobalt carbonate (CAS 513-79-1) Listed. Copper Sulfate (CAS 7758-98-7) Listed. Manganese oxide (CAS 1344-43-0) Listed.

922324 Version #: 02 Revision date: 21-May-2018 Issue date: 14-September-2014 Sodium Selenite (CAS 10102-18-8) Listed. Zinc oxide (CAS 1314-13-2) Listed.

SARA 304 Emergency release notification

Sodium Selenite (CAS 10102-18-8) 100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable **Threshold** Threshold **Threshold** quantity planning quantity planning quantity, planning quantity, (pounds) (pounds) lower value upper value (pounds) (pounds) Sodium Selenite 10102-18-8 100 10000

Yes

100

SARA 311/312 Hazardous

chemical

Classified hazard categories

Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Cobalt carbonate (CAS 513-79-1)

Manganese oxide (CAS 1344-43-0)

Sodium Selenite (CAS 10102-18-8)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Copper Sulfate (CAS 7758-98-7)

Iron oxide (CAS 1309-37-1)

Sodium Selenite (CAS 10102-18-8)

White mineral oil (Viscosity >7 =<20.5 mm2/s) (CAS 8042-47-5)

Zinc oxide (CAS 1314-13-2)

US. New Jersey Worker and Community Right-to-Know Act

Cobalt carbonate (CAS 513-79-1)

Copper Sulfate (CAS 7758-98-7)

Iron oxide (CAS 1309-37-1)

Manganese oxide (CAS 1344-43-0)

Sodium Selenite (CAS 10102-18-8)

White mineral oil (Viscosity >7 =<20.5 mm2/s) (CAS 8042-47-5)

Zinc oxide (CAS 1314-13-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Cobalt carbonate (CAS 513-79-1)

Copper Sulfate (CAS 7758-98-7)

FD & C Blue 1I (CAS 68921-42-6)

Ferrous Carbonate (CAS 563-71-3)

Iron oxide (CAS 1309-37-1)

Manganese oxide (CAS 1344-43-0)

Sodium Selenite (CAS 10102-18-8)

White mineral oil (Viscosity >7 =<20.5 mm2/s) (CAS 8042-47-5)

Zinc oxide (CAS 1314-13-2)

US. Rhode Island RTK

Ferrous Carbonate (CAS 563-71-3)

Iron oxide (CAS 1309-37-1)

Sodium Selenite (CAS 10102-18-8)

Zinc oxide (CAS 1314-13-2)

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California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Cobalt carbonate (CAS 513-79-1) Sodium Selenite (CAS 10102-18-8)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date14-September-2014Revision date21-May-2018

Version # 02

United States & Puerto Rico

HMIS® ratings Health: 1*

Flammability: 0 Physical hazard: 0 Personal protection: A

Disclaimer

All statements, technical information and recommendations contained herein are, the best of our knowledge, reliable and accurate; however no warranty, either expressed or implied is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material

described.

It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of this Company or others covering any process, composition of matter or use.

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Yes

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).