

# **Safety Data Sheet**

Revision Date 12/16/15

#### 1. PRODUCT AND COMPANY IDENTIFACTION

Product name Sodium Dichromate Solution – 22 %

Manufacturer Sentury Reagents, Inc.

2515 Commerce Dr. Rock Hill, SC 29730

Telephone 803-327-6880 Fax 803-327-3872

Emergency Phone # PERS: 800-633-8253 International Phone # 011-801-629-0667

Account 10613

## 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

## **OSHA Hazardous**

Oxidizer, Carcinogen, Target Organ Effect, Toxic by inhalation, Highly toxic by ingestion. Harmful by skin absorption, Respiratory sensitizer. Corrosive. Teratogen. Reproductive hazard. Mutagen.

Target Organs: Kidney, Liver

Signal Words: DANGER

#### Classification

Oxidizing liquids (Category 2)
Acute toxicity, Oral (Category 2)
Acute toxicity, Inhalation (Category 2)
Acute toxicity, Dermal (Category 4)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)
Respiratory sensitization (Category 1)

Germ cell mutagenicity (Category 1B)
Carcinogenicity (Category 1B)
Reproductive toxicity (Category 1B)

Specific target organ toxicity-repeated exposure, Inhalation (Category 1)

Acute aquatic toxicity (Category 1)

## GH3 Label elements, including precautionary statements

## Pictogram



## Signal word Danger

Hazard	statement(s)	

H272 May intensify fire; oxidiser. H300 Fatal if swallowed.

H330 Fatal if inhaled.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure.

Sentury Reagents, Inc.

H400 Very toxic to aquatic life.

Precautionary statement(s)

P201 Obtain special instructions before use.

P220+P223 Keep/Store away from clothing/ combustible materials. Keep container tightly closed.

P260 Do NOT breathe dust/mist/vapors/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Upper respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

HMIS Classification NFPA Rating

Health hazard: 3 Health hazard: 3 0 Fire: 0 Fire 2 **Pvsical** Reactivity Hazard: 0 F Personal Special hazard: OX

#### **Potential Health Effects**

**Eyes** Causes severe eye burns. Contact rapidly cause severe damage.

**Inhalation** May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes

and upper respiratory tract. Causes burns to the respiratory tract.

Skin May be harmful if absorbed through skin. Causes skin burns. Prolonged or repeated skin exposure may

cause dermatitis.

Ingestion May be fatal if swallowed. Severe and rapid corrosive burns of the mouth, gullet and gastrointestinal tract

will result if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Sodium Dichromate	23-25	7789-12-0	234-190-3	Na2Cr2O7·2H₂O	298.0 g/mol
Water	75-77	7732-18-5	231-791-2	H₂O	18.00 g/mol

## 4. FIRST AID MEASURES

### If inhaled

Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

## In case of skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.

### In case of eye contact

Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.

#### lf swallowed

**DO NOT INDUCE VOMITING!** Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

## **Conditions of flammability**

Not flammable.

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide on adjacent fires.

### Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots.

Sentury Reagents, Inc.

## Special hazards arising from the chemical

Emits toxic fumes (Chromium oxides) under fire conditions. See also Stability and Reactivity section.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

See section 8 for recommendations on the use of personal protective equipment.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Any release to the environment nay be subject to federal/national or local reporting requirements.

#### Methods and materials for containment and cleaning up

Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Any release to the environment may be subject to federal/national or local reporting requirements. Dispose of all waste or cleanup materials in accordance with local regulations.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

## Conditions for safe storage

Store in cool, dry well-ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure controls:

Component	<b>Exposure Limits</b>	Basis	Entity
Sodium Chromate	0.005 mg/m³ (as Cr)	PEL	USA OSHA
	0.001 mg/m <sup>3</sup> ceiling (as	STEP	USA OSHA
	Cr)		
	0.05 mg/m³ (as Cr)	TWA	USA ACGIH
	$0.001 \text{ mg/m}^3 \text{ (as Cr VI)}$	T\//A	LISA NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV.

Threshold Limit Value over 8 hours of work REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

#### **Personal Protection**

**Eyes** Wear chemical safety glasses.

**Inhalation**Use an approved respirator if exposure level exceed limits. Provide adequate exhaust. **Skin**Wear neoprene or nitrile gloves, protective clothing appropriate to the risk of exposure.

#### Other Recommendation

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

Page 3 of 5

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form liquid

Colour Red, orange solution

Safety data

pH 4 (1% solution)
Melting/ not applicable
freezing point -4°F / -20°C
Boiling point 238°F / 114.4°C

Flash point Not Flammable (see section 5)

Ignition temp no data available

Sentury Reagents, Inc.

Auto-ignition

emp no data available

Lower/Upper explosion limit Not explosive (see section 5)

Vapour pressure no data available Density no data available

Water solubility Completely soluble in water

no data available

Partition coefficient: no data available n-octanol /water

density
Odour no odor

Odour Threshold no data available Evaporation Rate no data available

## 10. STABILITY AND REACTIVITY

Relative vapor

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

Will not occur.

#### Conditions to avoid

None

#### Materials to avoid

Acids, strong reducing agents, alcohol

## Hazardous decomposition products

Sodium oxides and chromium oxides.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Skin LD50 Dermal 1000 mg/kg (rabbit)

Eyes Not Available

**Respiratory** LD50/Inhalation 0.124 mg/L 4 hrs (rat)

**Ingestion** LD50 Oral – rat – 50 mg/kg

## Carcinogenicity

IARC Group 1 Carcinogen (sodium dichromate)
ACGIH Known Carcinogen (sodium dichromate)
NTP Known Carcinogen (sodium dichromate)
OSHA 29CFR1910.1026 (sodium dichromate)

Skin Causes skin burns. May be absorbed through skin. Contact causes redness, burns, itching and pain

Prolonged or repeated skin exposure may cause dermatitis.

**Eyes** May cause eye burns. Symptoms include eye burns, pain, watering eyes.

**Respiratory** May be fatal if inhaled. Causes burns to the respiratory tract. Symptoms include coughing, shortness of

breath, burning, choking, wheezing, laryngitis, headache or nausea.

**Ingestion** May be fatal if swallowed Causes burns.

Chronic Toxicity This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA,

ACHIGH, NTP or EPA classification.

**Teratogenicity** May alter genetic material. **Mutagenicity** Investigated as a mutagen.

**Embryotoxicity** May cause reproductive disorders.

Specific Target Organ Toxicity Not Available

#### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

#### Persistence and degradability

no data available

#### **Bioaccumulative potential**

Accumulates

### Mobility in soil

no data available

#### PBT and vPvB assessment

no data available

#### **Aquatic Vertebrate**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **Aquatic Invertebrate**

no data available

#### **Terrestrial**

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### **Waste Residues**

Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.

#### **Product Containers**

Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

## 14. TRANSPORT INFORMATION

DOT (US)

UN number: 3287 Class: 6.1 Packing group: III

Proper shipping name: Toxic liquid, inorganic, n.o.s. (Sodium Dichromate Solution)

Pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number:3287 Class: 6.1 Packing group: III

Proper shipping name: Toxic liquid, inorganic, n.o.s. (Sodium Dichromate Solution)

Pollutant: No

IATA

UN number:3287 Class: 6.1 Packing group: III

Proper shipping name: Toxic liquid, inorganic, n.o.s. (Sodium Dichromate Solution)

## 15. REGULATORY INFORMATION

TSCA Inventory Status DSCL (EEC) All ingredients are listed on the TSCA inventory

California Proposition 65

All ingredients are listed on the DSCK inventory Yes, Chromium compounds, cancer.
Listed: Sodium Dichromate
Listed: Sodium Dichromate SARA 302 SARA 304 Sodium Dichromate **SARA 311** SARA 312 SARA 313 Sodium Dichromate Listed: Sodium Dichromate CLASS C: Oxidizing material WHMIS Canada

CLASS D-2A Material causing other toxic effects (VERY TOXIC)

## 16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sentury Reagents, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

Sentury Reagents, Inc. Page 5 of 5