

Sodium Chromate
21130

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Sodium Chromate

Catalog Numbers:

S78475, S272 250, S272 500, S272-250, S272-500, S272250, S272500

Synonyms:

Chromium Sodium Oxide; Chromium Disodium Oxide; Disodium Chromate;
Sodium Chromate (VI)

Company Identification: Fisher Scientific

1 Reagent Lane
Fairlawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
7775-11-3	SODIUM CHROMATE	100	231-889-5

Hazard Symbols: XI

Risk Phrases: 36/37/38 43 46 49 50/53

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: yellow.

Danger! May be fatal if swallowed. Cancer suspect agent. Sensitizer.
May cause liver and kidney damage. May cause severe respiratory and
digestive tract irritation with possible burns. May cause severe eye
and skin irritation with possible burns. May cause cancer in humans.
May cause blood abnormalities.

Target Organs: Blood, kidneys, liver, respiratory system.

Potential Health Effects

Eye:

Contact with eyes may cause severe irritation, and possible eye
burns.

Skin:

May cause skin sensitization, an allergic reaction, which becomes
evident upon re-exposure to this material. May cause deep,
penetrating ulcers of the skin. May be absorbed through the skin.
May cause severe irritation and possible burns.

Ingestion:

May be fatal if swallowed. May cause severe gastrointestinal tract
irritation with nausea, vomiting and possible burns. May cause liver
and kidney damage. May cause perforation of the digestive tract. May
cause hemorrhaging of the digestive tract.

Inhalation:

Causes respiratory tract irritation. May cause ulceration and
perforation of the nasal septum if inhaled in excessive quantities.

Chronic:

Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. Prolonged or repeated exposure may lead to asthma and perforation of the nasal septum. Prolonged or repeated contact may cause skin necrosis and/or ulceration of the skin. May cause cancer in humans. Chronic exposure may cause acute hepatitis with jaundice.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Treat symptomatically and

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Discard contaminated shoes.

Storage:

Store in a tightly closed container. Store in a cool, dry,

well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA-FinalPELs
SODIUM CHROMATE	0.05 mg/m3 TWA (listed under ** no name **).	as Cr: 0.5 mg/m3 TWA; see Appendix C for supplementary exposure limits (listed under ** no name **).as Cr: 250 mg/m3 IDLH (listed under ** no name **).	Chromium, sol. chromic, chromous salts (as Cr): 0.5 mg/m3 TWA; Chromium, metal and insoluble salts (as Cr): 1 mg/m3 TWA (listed under ** no name **).

OSHA Vacated PELs:

SODIUM CHROMATE:

(as Cr): 1 mg/m3 TWA (listed under ** no name **)

Personal Protective Equipment

Eyes:

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:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
Appearance: yellow
Odor: odorless
pH: Alkaline in solution
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.

Viscosity: Not available.
Boiling Point: Decomposes
Freezing/Melting Point: 792 deg C
Autoignition Temperature: Not applicable.
Flash Point: Not applicable.
NFPA Rating: Not published.
Explosion Limits, Lower: Not available.
Upper: Not available.
Decomposition Temperature: Not available.
Solubility: 87 % in water
Specific Gravity/Density: 2.71-2.736
Molecular Formula: Na2CrO4
Molecular Weight: 161.9732

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, combustible materials, reducing agents.

Incompatibilities with Other Materials:

Keep away from combustible materials. may casue a fire. Under certain conditions, dry mixtures of chromates with azo-dyes may lead to violent explosions during mixing or blending operations.

Hydrazine is decomposed explosively by chromates.

Hazardous Decomposition Products:

Toxic fumes of sodium oxide, toxic chromium oxide fumes.

Hazardous Polymerization: Will not occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 7775-11-3: GB2955000

LD50/LC50:

Not available.

Carcinogenicity:

SODIUM CHROMATE -

ACGIH: A1 - confirmed human carcinogen (listed as ** undefined **

California: carcinogen; initial date 2/27/87 (listed as ** undefined *

NTP: Known carcinogen

OSHA: Possible select carcinogen (listed as ** undefined **).

IARC: Group 3 carcinogen (listed as ** undefined **).

Epidemiology:

Increased incidences of respiratory cancer has been found in Chromium (VI) workers.

Teratogenicity:

No information found.

Reproductive Effects:

No information found.

Neurotoxicity:

No information reported

Mutagenicity:

2500 nmol/l produces DNA damage in chicken embryos, according to RTECS.

Other Studies:

No information found.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:

Rotifers: LC50 3.1 ppm/96 H. Fathead Minnow: LC50 3 ppm/96 H.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Chemical waste generators must determine whether a discarded chemical is class if as a hazardous waste.US EPA guidelines for the classification determination are listed in 40 CFR Part Additionally, waste generators must consult state and local hazardous waste regu ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT

Shipping Name: TOXIC SOLIDS, INORGANIC N.O.S
(SODIUM CHROMATE)

Hazard Class: 6.1

UN Number: UN3288

Packing Group: II

Canadian TDG

No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL

TSCA

CAS# 7775-11-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

CAS# 7775-11-3: 6/12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 7775-11-3: final RQ = 10 pounds (4.54 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7775-11-3: acute, chronic.

Section 313

This material contains SODIUM CHROMATE (listed as ** undefined **), 100%, (CAS# 7775-11-3) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 7775-11-3 is listed as a Hazardous Substance under the CWA.

CAS# 7775-11-3 is listed as a Priority Pollutant under the Clean Water Act.

CAS# 7775-11-3 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

SODIUM CHROMATE can be found on the following state right to know lists: California, New Jersey, Florida, (listed as ** no name **), Pennsylvania, Minnesota, (listed as ** no name **), Minnesota, (listed as ** no name **), Massachusetts.

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains SODIUM CHROMATE, listed as ` ** undefined **`, a chemical known to the state of California to cause cancer.

California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 43 May cause sensitization by skin contact.
- R 46 May cause heritable genetic damages.
- R 49 May cause cancer by inhalation.
- R 50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

- S 53 Avoid exposure - obtain special instructions before use.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 60 This material and/or its container must be disposed of as hazardous waste.
- S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

WGK (Water Danger/Protection)

CAS# 7775-11-3: 3

United Kingdom Occupational Exposure Limits

CAS# 7775-11-3: OES-United Kingdom, TWA (listed as ** undefined **): 0.5 mg/m3 TWA

Canada

CAS# 7775-11-3 is listed on Canada's DSL/NDSL List.

This product has a WHMIS classification of D2A.

CAS# 7775-11-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7775-11-3 (listed as ** undefined **): OEL-ARAB Republic of Egypt:TWA 0.05 mg/m3

OEL-AUSTRALIA:TWA 0.05 mg/m3

OEL-BELGIUM:TWA 0.5 mg/m3

OEL-DENMARK:TWA 0.5 mg/m3

OEL-FINLAND:TWA 0.01 mg/m3

OEL-FRANCE:TWA 0.5 mg/m3
OEL-JAPAN:TWA 0.5 mg/m3
OEL-THE NETHERLANDS:TWA 0.5 mg/m3
OEL-THE PHILIPPINES:TWA 1 mg/m3
OEL-SWEDEN:TWA 0.5 mg/m3
OEL-UNITED KINGDOM:TWA 0.5 mg/m3
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 2/23/1998 Revision #2 Date: 8/02/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.
