

Copperchromite Catalyst: sc-255031



The Power to Question

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Product Name: Copperchromite Catalyst

Catalog Number: sc-255031

Supplier:

Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

Emergency:

ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
COPPER CHROMITE CATALYST	12053-18-8	90 - 100%	0.5 mg/m ³ TWA	1 mg/m ³ TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed.

Category of Danger:

Harmful. Dangerous for the environment

Principle routes of exposure: Skin

Inhalation: Harmful by inhalation.

Ingestion: Harmful if swallowed.

Skin contact: Harmful in contact with skin.

Eye contact: Risk of serious damage to eyes.

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice.

Ingestion: Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use media appropriate for the surrounding fire. Do not use carbon dioxide.
Specific hazards:	Burning produces irritant fumes.
Unusual hazards:	None known
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods:	Water mist may be used to cool closed containers.
Flash point:	Not determined
Autoignition temperature:	Not determined
NFPA rating:	
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment.
Environmental precautions:	Prevent product from entering drains.
Methods for cleaning up:	Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:
ROOM TEMPERATURE

Handling:	Use only in area provided with appropriate exhaust ventilation.
Safe handling advice:	Wear personal protective equipment.
Incompatible products:	Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	odorless; available as lumps, granules, powder or high purity single crystals
Physical state:	Solid
Formula:	2CuO•Cr2O3
Molecular weight:	311.08

Melting point/range:	1900 °C (3452 °F)
Boiling point/range:	2642 °C (4788 °F)
Density:	7.2 (water = 1)
Vapor pressure:	Practically zero at room temperature 1 mm Hg at 1616 °C
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	Insoluble
Flash point:	Not determined
Autoignition temperature:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Chromium (Cr-)
Materials to avoid:	-
	Water (Listed under Chromium, Soluble Chromic, Chromous Salts (as Cr)); Strong oxidizers (Listed under Chromium, Metal and Insoluble Salts)
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components

COPPER CHROMITE CATALYST

RTECS Number:

Not Available

Selected LD50s and LC50s

Not Determined

Chronic toxicity:

Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects:

May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Primary irritation:

No data is available on the product itself.

Carcinogenic effects:

No data is available on the product itself.

Mutagenic effects:

No data is available on the product itself.

Reproductive toxicity:

No data is available on the product itself.

Components

COPPER CHROMITE CATALYST

NIOSH - Health Effects

Pulmonary effects

NIOSH - Target Organs

respiratory system, skin, eyes

12. ECOLOGICAL INFORMATION

Mobility:

No data available

Bioaccumulation:

No data available

Ecotoxicity effects:

No data available

Aquatic toxicity:

May cause long-term adverse effects in the aquatic environment.

Components

COPPER CHROMITE CATALYST

U.S. DOT - Appendix B - Marine Pollutan

Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants

DOT regulated severe marine pollutant

United Kingdom - The Red List:

Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
COPPER CHROMITE CATALYST	Not Listed	0.05 mg/L (Provisional)	LC50 (96 hr) fathead minnow:23 ug/L;20 mg CaCO3/L;LC50 (96 hr) rainbow trout:13.8 ug/L;juveniles;LC50 (96 hr) bluegill:236 - 892 ug/L:adults

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
COPPER CHROMITE CATALYST	IC50 (72 hr) freshwater algae (Scenedesmus subspicatus):120 ug/L:	Not Listed	LC50 (96 hr) water flea:10 ug/L;Cond: 45 mg CaCO3/L;LC50 (96 hr) water flea:200 ug/L;Cond: 226 mg CaCO3/L

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
COPPER CHROMITE CATALYST	Rank (of 275): 073	Not Listed	Maximum concentration = 13 ug/L; continuous concentration = 9.0 ug/L

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
COPPER CHROMITE CATALYST	Water and organisms = 1300 ug/L	Maximum concentration = 4.6 ug/L; continuous concentration = 3.1 ug/L

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging:

Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No:	3077
DOT:	
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
IATA Hazard Label(s):	Miscellaneous
Hazard Class	9 -
	Other miscellaneous materials
Packing group:	III
Emergency Response Guide Number (ERG):	171

Components	U.S. DOT - Appendix A Table 1 - Reportable Quantities
COPPER CHROMITE CATALYST	RQ = 5000 pounds (2270 kg); The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches).

TDG (Canada):

WHMIS hazard class:

D2a very toxic materials



:

IATA

Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
IATA Hazard Label(s):	Miscellaneous
Hazard Class	9 -
	Other miscellaneous materials
Packing group:	III

Emergency Response Guide Number (ERG): 171

Components

COPPER CHROMITE CATALYST

U.S. DOT - Appendix A Table 1 - Reportable Quantities

RQ = 5000 pounds (2270 kg); The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches).

IMDG/IMO

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

IMDG - Hazard Classifications Not Applicable

Components

COPPER CHROMITE CATALYST

U.S. DOT - Appendix B - Marine Pollutant

Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants

DOT regulated severe marine pollutant

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

COPPER CHROMITE CATALYST

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

235-000-1; Cr2Cu2O5

Korean KECL:

KE-08911

Philippines PICCS:

Present

U.S. regulations:

Components

COPPER CHROMITE
CATALYST

California Proposition 65

-
Not Listed

Massachusetts Right to Know List:

carcinogen; extraordinarily
hazardous

New Jersey Right to Know List:

sn 0432

Pennsylvania Right to Know List:

environmental hazard; special
hazardous substance (any
compound of this substance is
also an environmental hazard)

Components

COPPER CHROMITE
CATALYST

Florida substance List:

[present]

Rhode Island Right to Know List:

Toxic, Carcinogen

Illinois - Toxic Air Contaminants

Present on Great Waters
or Great Lakes list

Connecticut - Hazardous Air Pollutants

2.5 ug/m³ HLV

Components

COPPER CHROMITE
CATALYST

SARA 313 Emission reporting/Toxic Release of Chemicals

form R reporting required
for 1.0% de minimis
concentration

CERCLA/SARA - Section 302 Extremely Haz

Not Listed

NTP:

None

IARC:

None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

5/31/2012