



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 1 of 8
--	----------------	-------------

1. Identification of the substance/preparation and of the company/undertaking

> **Trade name: Zinc Chrome**

Application of the substance / the preparation Pigment

> **Manufacturer**

Vibfast Pigments Pvt. Ltd.
C-1, 91/6, Phase 1, G.I.D.C.,
B/h. Bank of India, Vatva,
Ahmedabad-382 445, INDIA

> **Emergency telephone:**

Tel.: + 0091-79-32920774, 0091-79-64501424
Fax: 0091-79-25893014, e-mail : amit@vibfast.com,

2. Hazards identification

> **Hazard description:**



Carc. Cat. 2, Repr. Cat. 1, 3

T Toxic

N Dangerous for the environment

> **Information concerning particular hazards for human and environment:**

R 45: May cause cancer.

R 61: May cause harm to the unborn child.

R 62: Possible risk of impaired fertility.

R 33: Danger of cumulative effects.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

> **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

> **GHS label elements**



Danger

H360Df- May damage the unborn child. Suspected of damaging fertility.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure



Warning



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 2 of 8
--	----------------	-------------

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

>Prevention:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

> Response:

P308+P313 IF exposed or concerned: Get medical advice/attention.

> Storage:

P405 Store locked up.

> Disposal:

P501 Dispose of contents/container in accordance with local/regional national/international regulations.

3. Composition / information on ingredients

> Chemical characterization:

> CAS No. Description: 13530-65-9 Zinc dioxide (dioxo) Chromium

> Identification number(s)

> EINECS Number: 236-878-9

> Color Index number: 77956

4. First aid measures

> General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

>After inhalation: Take affected persons into fresh air and keep quiet.

In case of unconsciousness place patient stably in side position for transportation.

Call a doctor immediately.

>After skin contact: Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

>After eye contact: Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

>After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 3 of 8
--	----------------	-------------

5. Fire-fighting measures

>Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

>For safety reasons unsuitable extinguishing agents: Water with full jet

>Protective equipment: Wear self-contained respiratory protective device.

>Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release measures

>Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation. Avoid formation of dust.

>Measures for environmental protection: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities.

>Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13.

>Additional information: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

7. Handling and storage

> Handling:

>Information for safe handling: Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Keep receptacles tightly sealed.

>Information about fire - and explosion protection: Keep respiratory protective device available. The product is not flammable.

>Storage:

> Requirements to be met by storerooms and receptacles: No special requirements.

>Information about storage in one common storage facility: Not required.

> Further information about storage conditions: Store in dry conditions. Store in a cool place.



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 4 of 8
--	----------------	-------------

8. Exposure controls / personal protection

> **Additional information about design of technical facilities:** No further data; see item 7.

> **Ingredients with limit values that require monitoring at the workplace:** Not required.

> **Additional information:** The lists valid during the making were used as basis.

> **Personal protective equipment:**

> **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Shower or take a bath at the end of work.

Store protective clothing separately.

> **Respiratory protection:** Filter P3

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product / the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation .

> **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

> **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

> **Eye protection:**



Tightly sealed goggles

> **Body protection:** Protective work clothing.



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 5 of 8
--	----------------	-------------

9. Physical and chemical properties

· General Information

Form: Powder
Colour: Yellow
Odour: Odourless

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** 5 - 6 g/cm³

· Solubility in / Miscibility with

Water: Slightly soluble/
Insoluble.

· **pH-value at 20°C:** 6 – 9

· **Organic solvents:** 0,0 %

· **Solids content:** 100,0 %

10. Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Materials to be avoided:

· Dangerous reactions

No dangerous reactions known.

· Dangerous decomposition products:

No dangerous decomposition products known.

11. Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

1344-37-2 Lead sulfochromate yellow

Oral LD50 >10000 mg/kg (rat)

· Primary irritant effect:

· **On the skin:** No irritant effect.

· **On the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carc. Cat. 2, Repr. Cat. 1, 3



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 6 of 8
--	----------------	-------------

12. Ecological information

Information about elimination (persistence and degradability):

Anorganic product, is not removable from water by biological cleaning process

Ecotoxicological effects:

Remark: Very toxic for fish

Additional ecological information:

General notes:

Avoid transfer into the environment.

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13. Disposal considerations

Product:

Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14. Transport information

Land Transport ADR/RID [cross-border]



ADR/RID Class:	6.1 (T5) Toxic substances
Danger Code:	60
UN-Number:	2291
Packaging group:	III
Hazard label:	6.1
Special marking:	Symbol (fish and tree)
Description of goods:	2291 LEAD COMPOUND, SOLUBLE, N.O.S. (Lead sulfochromate yellow)
Tunnel restriction code	E



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016
Product : Zinc Chrome

Revision No. 1

Page 7 of 8

Maritime Transport IMDG



IMDG Class: 6.1
UN-Number: 2291
Packaging group: III
Hazard label: 6.1

EMS Number: F-A, S-A
Marine pollutant: Yes [Symbol (fish and tree)]
Segregation groups Heavy metals and their salts (including their organometallic compounds), lead And its compounds
Proper shipping name: LEAD COMPOUND.SOLUBLE ,N.O.S.
[C.I.PIGMENT YELLOW 34]

Air Transport ICAO –TI and IATA-DGR

ICAO/IATA Class: 6.1
UN/ID Number: 2291
Packaging group: III
Hazard label: 6.1



Proper shipping name: LEAD COMPOUND.SOLUBLE ,N.O.S.[
C.I.PIGMENT YELLOW 34]

· **UN "Model Regulation":** UN2291, LEAD COMPOUND, SOLUBLE, N.O.S., 6.1, III



Safety Data Sheet

(According to 1907/2006/EC, Article 31)

Date / Revised : 20.09.2016 Product : Zinc Chrome	Revision No. 1	Page 8 of 8
--	----------------	-------------

15. Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

Carc. Cat. 2, Repr. Cat. 1, 3

T Toxic

N Dangerous for the environment

· Risk phrases:

45 May cause cancer.

61 May cause harm to the unborn child.

62 Possible risk of impaired fertility.

33 Danger of cumulative effects.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

53 Avoid exposure - obtain special instructions before use.

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

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

These data are based on our present knowledge, & are intended to describe the product with regard to the safety requirements. The data shall not constitute a guarantee of a particular or general specification nor shall it establish a legally valid contractual relationship. It will be a sole responsibility of the user of the product to ensure the suitability of the product intended for the purpose & method of use.

· Department issuing MSDS: Technical & Customer support

· Contact: Mr. Amit V. Banthia

amit@vibfast.com,

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereux par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent