

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name : tri-Cobalt tetra-oxide

Company Identification : KISHIDA CHEMICAL CO., LTD.

Address : 3-1, Hommachibashi, Chuo-ku, OSAKA 540-0029, JAPAN (Head office)

14-10, Technopark, Sanda-shi, HYOGO 669-1339, JAPAN (Sanda factory)

Company Phone Number : Telephone (06) 6946-8062 Facsimile (06) 6946-1701(Head office)

Emergency Phone Number : Telephone (079) 568-1531 Facsimile (079) 568-1586 (Sanda factory)

2. HAZARD IDENTIFICATION

GHS Hazard category

Physical hazards

No information found.

Health hazards

Acute dermal toxicity Category 5

Carcinogenicity Category 2

Environmental hazards

No information found.

GHS Label elements

Symbol



Signal word : Warning.

Hazard statement : Suspected to harmful in contact with skin

Suspected to causing cancer

Precautionary statement : Obtain special instructions before use.

Do not handle until all safety precautions have understood.

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

EMERGENCY OVERVIEW

Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eyes : May cause eye irritation.

Skin : May cause skin irritation.

Ingestion : May cause irritation of the digestive tract.

Inhalation : May cause respiratory tract irritation.

Chronic : No information found.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name : tri-Cobalt tetra-oxide

Synonyms : Cobalt(II, III) oxide

CAS No. : 1308-06-1

Percent : 98 % (min)

EINECS No. : 215-157-2

4. FIRST-AID MEASURES

Eyes : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
Get medical aid.

Skin : Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion : Get medical aid. Wash mouth out with water. Never give anything by mouth to an unconscious person.

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

Notes to Physician : Treat symptomatically and supportively.

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. Substance is noncombustible. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media : Use extinguishing media most appropriate for the surrounding fire.

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.

7. HANDLING AND STORAGE

Handling : Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage : Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

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

Personal Protective Equipment

Eyes : Wear chemical goggles.

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 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

15. REGULATORY INFORMATION

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols:

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 1308-06-1: 1

United Kingdom Occupational Exposure Limits

CAS# 1308-06-1: No information found.

Canadian DSL/NDSL

CAS# 1308-06-1 is listed on Canada's DSL List.

Canadian WHMIS Classifications

CAS# 1308-06-1: No information found.

Canada Ingredient Disclosure List

CAS# 1308-06-1 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 1308-06-1 is listed on the TSCA Inventory.

16. OTHER INFORMATION

The above information is believed to be correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. KISHIDA CHEMICAL shall not be held liable for any damage resulting from handling or from contact with the above product.