

INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: Dicobalt octacarbonyl (Stabilised with 1-5% hexane)
Product code: EO04080
Company: INTATRADE Chemicals GmbH
Bahnhofstr. 1
06774 Muldestausee OT Friedersdorf, Germany
Phone: +49 3493/605464
Fax : +49 3493/605470
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2. HAZARDS IDENTIFICATION

Hazard designation: T+ Very toxic
Information pertaining to particular Dangers for man and environment R 22 Harmful if swallowed.
R 26 Very toxic by inhalation.
R 40 Limited evidence of a carcinogenic effect.
R 43 May cause sensitisation by skin contact.
R 62 Possible risk of impaired fertility.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS label elements



Danger

H330 Fatal if inhaled.



Warning

Prevention:

Response:

H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Designation: Dicobalt octacarbonyl (CAS-No.: 10210-68-1); 95-99%
Hexane (CAS-No.: 110-54-3); 1-5%
EC-No.: 233-514-0

EO04080

www.intatrade.de

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4. FIRST AID MEASURES

General information	Instantly remove any clothing soiled by the product. Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek immediate medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents	CO ₂ , sand, extinguishing powder.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide Toxic metal oxide smoke
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. HANDLING AND STORAGE

Handling	
Information for safe handling:	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage	
Requirements to be met by storerooms and containers:	Store in cool location.
Information about storage in one common storage facility:	Store away from oxidizing agents. Store away from air.
Further information about storage conditions:	Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

Store in a locked cabinet or with access restricted to technical experts or their assistants.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.																																																				
Components with critical values that require monitoring at the workplace:	<table><tr><td>Cobalt carbonyl</td><td>mg/m³</td></tr><tr><td>ACGIH TLV</td><td>0.1</td></tr><tr><td>Belgium TWA</td><td>0.1</td></tr><tr><td>Denmark TWA</td><td>0.1</td></tr><tr><td>France TWA</td><td>0.1</td></tr><tr><td>Hungary TWA</td><td>0.01; 0.02 STEL</td></tr><tr><td>Netherlands TWA</td><td>0.1</td></tr><tr><td>n-Hexane</td><td>ppm</td></tr><tr><td>ACGIH TLV</td><td>50 (skin)</td></tr><tr><td>Austria MAK</td><td>50</td></tr><tr><td>Belgium TWA</td><td>50</td></tr><tr><td>Denmark TWA</td><td>25</td></tr><tr><td>Finland TWA</td><td>50; 150-STEEL</td></tr><tr><td>France VME</td><td>50</td></tr><tr><td>Germany MAK</td><td>50</td></tr><tr><td>Hungary TWA</td><td>100; 200-STEEL</td></tr><tr><td>Japan OEL</td><td>40 (skin)</td></tr><tr><td>Korea TLV</td><td>50 (skin)</td></tr><tr><td>Netherlands MAC-TGG</td><td>25</td></tr><tr><td>Norway TWA</td><td>25</td></tr><tr><td>Poland TWA</td><td>100; 400-STEEL</td></tr><tr><td>Russia TWA</td><td>40; 300-STEEL</td></tr><tr><td>Sweden NGV</td><td>25; 50-KTV</td></tr><tr><td>Switzerland MAK-W</td><td>50; 100-KZG-W</td></tr><tr><td>United Kingdom TWA</td><td>20</td></tr><tr><td>USA PEL</td><td>500</td></tr></table>	Cobalt carbonyl	mg/m ³	ACGIH TLV	0.1	Belgium TWA	0.1	Denmark TWA	0.1	France TWA	0.1	Hungary TWA	0.01; 0.02 STEL	Netherlands TWA	0.1	n-Hexane	ppm	ACGIH TLV	50 (skin)	Austria MAK	50	Belgium TWA	50	Denmark TWA	25	Finland TWA	50; 150-STEEL	France VME	50	Germany MAK	50	Hungary TWA	100; 200-STEEL	Japan OEL	40 (skin)	Korea TLV	50 (skin)	Netherlands MAC-TGG	25	Norway TWA	25	Poland TWA	100; 400-STEEL	Russia TWA	40; 300-STEEL	Sweden NGV	25; 50-KTV	Switzerland MAK-W	50; 100-KZG-W	United Kingdom TWA	20	USA PEL	500
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Additional information:	No data																																																				
Personal protective equipment	The usual precautionary measures should be adhered to in the chemicals.																																																				
General protective and handling hygienic measures	Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Store protective clothing separately.																																																				
Breathing equipment:	Use breathing protection with high concentrations.																																																				
Eye protection:	Face protection Safety glasses																																																				
Body protection:	Protective work clothing.																																																				

9. PHYSICAL AND CHEMICAL PROPERTIES:

General Information

Form:	Crystalline
Colour:	Red-orange
Smell:	Type specific

Change in condition

Melting point/Melting range:	ca 51°C (dec)
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined

Must be specially treated under adherence to official regulations.
Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: 6.1 (TS) Toxic substances.
Kemler Number: 664
UN-Number: 3466
Packaging group: II
Label 6.1
Designation of goods: 3466 TOXIC SOLID, N.O.S. (Octacarbonyldicobalt)
Limited quantities (LQ) LQ0
Tunnel restriction code D/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 6.1
UN Number: 3466
Label 6.1
Packaging group: II
Marine pollutant: No
Correct technical name: TOXIC SOLID, N.O.S. (Octacarbonyldicobalt)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 6.1
UN/ID Number: 3466
Label 6.1
Packaging group: II
Correct technical name: TOXIC SOLID, N.O.S. (Octacarbonyldicobalt)

UN "Model Regulation": UN 3466, METAL CARBONYLS, SOLID, N.O.S., class 6.1, P.G. II

15. REGULATORY INFORMATION

Designation according to EC guidelines:

Code letter and hazard
designation of product:

Risk phrases:

T+ Very toxic
11 Highly flammable.
22 Harmful if swallowed.
26 Very toxic by inhalation.
40 Limited evidence of a carcinogenic effect.
43 May cause sensitisation by skin contact.
62 Possible risk of impaired fertility.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases: 28 After contact with skin, wash immediately with plenty of soap and water.
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

National regulations

Information about limitation of use: Employment restrictions concerning young persons must be observed.
Employment restrictions concerning women of child-bearing age must be observed.

Water hazard class:

For use only by technically qualified individuals.
Generally not hazardous for water.

16. OTHER INFORMATION:

Warranty

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. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.