

Printed: 21.03.2022

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

1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: Tricarbonylnitrozylcobalt

Product code: EO00844

Company: INTATRADE Chemicals GmbH

Am Winkel 5

06774 Muldestausee, Germany

Phone: +49 34955/406944
Fax: +49 34955/406946
e-mail: intatrade@intatrade.de

2. HAZARDS IDENTIFICATION

Classification of the substance

or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

Carc. 2 H351 Suspected of causing cancer.

GHS label elements







Hazard pictograms

Signal word

Danger

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard statements H225 Highly flammable liquid and vapor.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H351 Suspected of causing cancer.

Precautionary statements P231 Handle under inert gas.

P210 Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/

doctor.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P422 Store contents under inert gas.

P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4) Health = 2

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4) Health = *2

Fire = 3

Reactivity = 0

Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances CAS No. 14096-82-3

Identification number(s) EC number: 237-945-5

4. FIRST-AID MEASURES

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have

been completely removed.

In case of irregular breathing or respiratory arrest provide artificial

respiration.

Supply fresh air or oxygen; call for doctor. After inhalation:

In case of unconsciousness place patient stably in side position for

transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly. After eye contact: Rinse opened eye for several minutes under running water. Then

consult a doctor.

After swallowing: Do not induce vomiting; immediately call for medical help.

Information for doctor: Most important symptoms and effects, both acute and delayed No

further relevant information available.

Indication of any immediate medical attention and special

treatment needed No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water

No further relevant information available.

spray or alcohol resistant foam.

Water with full jet

For safety reasons unsuitable

extinguishing agents:

Special hazards arising from

the substance or mixture

Advice for firefighters Protective equipment:

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment

and emergency procedures Wear protective equipment. Keep unprotected persons away. Prevent seepage into sewage system, workpits and cellars. Environmental precautions: Methods and material for Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

7. HANDLING AND STORAGE

Handling: Handle under inert gas.

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection Keep ignition sources away - Do not smoke.

against explosions and fires: Protect against electrostatic charges.

Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Storage: Keep cool.

Store contents under inert gas.

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Information about storage in

one common storage facility: Not required.

Further information about Keep receptacle tightly sealed.

storage conditions: Store in cool, dry conditions in well sealed receptacles. Recommended storage temperature: Store at temperatures not exceeding -18 °C. Keep cool.

Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about

design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that

require monitoring at the workplace: Not required.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls Personal protective equipment:

General protective and Keep away from foodstuffs, beverages and feed.

hygienic measures: Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.

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, 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Odor:

Form: Liquid
Color: Dark red
Acrid

Odor threshold: Not determined. PH-value: Not determined.

Change in condition

Melting point/Melting range: Undetermined.

E000844 <u>www.intatrade.de</u> Seite 3 von 6

Boiling point/Boiling range: 50 °C (122 °F)
Flash point: Not applicable.
Flammability (solid, gaseous): Not determined.

Ignition temperature:

Decomposition temperature: Not determined. Auto igniting: Not determined.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

Explosion limits:

Lower: Not determined.
Upper: Not determined.
Vapor pressure: Not determined.

Density at 20 °C (68 °F): 1.47 g/cm³ (12.26715 lbs/gal)

Relative density
Vapor density
Evaporation rate

Not determined.
Not determined.
Not determined.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

Partition coefficient

(n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined. Kinematic: Not determined.

Solvent content:

Organic solvents: 0.0 %

VOC content: 0.0 g/l / 0.00 lb/gl

Other information No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect. on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: Carcinogenic categories

IARC (International Agency for Research on Cancer) 2B

NTP (National Toxicology Program)

Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow

product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official

regulations.

14. TRANSPORT INFORMATION

UN-Number

DOT, IMDG, IATA UN1992

UN proper shipping name

DOT Flammable liquids, toxic, n.o.s.

IMDG, IATA FLAMMABLE LIQUID, TOXIC, N.O.S.

Transport hazard class(es)

DOT Class 3 Flammable liquids

Label 3, 6.1

IMDG Class 3 Flammable liquids

Label 3/6.1

IATA Class 3 Flammable liquids

Label 3 (6.1)

Packing group

DOT, IMDG, IATA II

Environmental hazards:

Marine pollutant: No

Special precautions for user Warning: Flammable liquids

EMS Number: F-E,S-D

Stowage Category B

Stowage Code SW2 Clear of living quarters.

Transport in bulk according to Annex II of MARPOL73/78 and

the IBC Code Not applicable.

Transport/Additional information:

DOT Quantity limitations On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

IMDG Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1992 FLAMMABLE LIQUIDS, TOXIC, N.O.S., 3 (6.1), II

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic

chemical listings): Substance is listed.

TSCA (Toxic Substances

Control Act): Substance is not listed.

Proposition 65 Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

16. OTHER INFORMATION

Carcinogenic categories

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.