

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

Printed: 18.07.2021

1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **Bis(1,5-cyclooctadiene)nickel(0)**
Product code: EO00465
Company: INTATRADE Chemicals GmbH
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REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS No.: 1295-35-8

2. HAZARDS IDENTIFICATION

Hazard designation: T Toxic
F Highly flammable
Information pertaining to particular dangers for man and environment R 45 May cause cancer.
R 11 Highly flammable.
R 43 May cause sensitisation by skin contact.

GHS label elements



Danger
H228 - Flammable solid.



Danger
H350 - May cause cancer.



Warning
H317 - May cause an allergic skin reaction.

Prevention: P210 Keep away from heat/sparks/open flames/ hot surfaces - No smoking
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

EO00465

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Response:	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
	P321 Specific treatment (see on this label).
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container in accordance with local/regional local/national/international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	Ni(COD) ₂
Formula:	C ₁₆ H ₂₄ Ni
Molecular Weight:	275,06 g/mol
CAS-No.:	1295-35-8
EC-No.:	215-072-0

4. FIRST AID MEASURES

General information	Instantly remove any clothing soiled by the product.
After inhalation	Supply fresh air and call for doctor for safety reasons. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.
After eye contact	Seek immediate medical advice. 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	Extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents	Water. Halocarbon extinguisher
Special hazards caused by the material, its products of combustion or flue gases:	Spontaneously flammable in air. 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

Personal precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C. Handle and store under inert gas. Air, light, and moisture sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
Eye protection	Safety glasses
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Crystalline-powder
Colour	dark yellow
Safety data	
pH	no data available
Melting point	60 °C
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be

avoided: No decomposition if used and stored according to specifications.
Materials to be avoided: Air
Oxidizing agents
Halogens
Water/moisture
Dangerous reactions: Spontaneously flammable in air.
Dangerous products of decomposition: Carbon monoxide and carbon dioxide
Toxic metal oxide smoke

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Primary irritant effect:
on the skin: May cause irritation
on the eye: May cause irritation
Sensitization: Sensitization possible by skin contact.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity
NTP-1: Known to be carcinogenic: sufficient evidence from human studies.
ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, orconvincing clinical evidence in, exposed humans.
Sensitisation May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION

Additional ecological information:
General notes: Water danger class 3 (Self-assessment): extremely hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into soil.
Do not allow material to be released to the environment without proper governmental permits

13. DISPOSAL CONSIDERATIONS

Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

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



ADR/RID-GGVS/E Class: 4.1 (F1) Flammable solids, self-reactive substances and solid desensitized explosives.
Kemler Number: 40
UN-Number: 1325
Packaging group: II
Label: 4.1

Designation of goods: 1325 FLAMMABLE SOLID,ORGANIC, N.O.S. Bis(1,5-cyclooctadiene)nickel(0)
Limited quantities (LQ) LQ8
Transport category 2
Tunnel restriction code E

Maritime transport IMDG/GGVSea:



IMDG/GGVSeaClass: 4.1
UN Number: 1325
Label 4.1
Packaging group: II
EMS Number: F-A,S-G
Marine pollutant: No
Correct technical name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Bis(1,5-cyclooctadiene)nickel(0))



Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 4.1
UN/ID Number: 1325
Label 4.1
Packaging group: II
Correct technical name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Bis(1,5-cyclooctadiene)nickel(0))

15. REGULATORY INFORMATION

Designation according to EC guidelines:
Code letter and hazard designation of product:

Hazard symbols		F Highly flammable,		T Toxic
R-phrases(s)	45 May cause cancer. 11 Highly flammable. 43 May cause sensitisation by skin contact.			
S-phrases(s)	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).			
National regulations	Information about limitation of use: For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.			
Water hazard class:	Water danger class 3 (Self-assessment): extremely hazardous for water.			

16. OTHER INFORMATION

Further 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.