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

1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: Dichloro[rac-ethylenebis(indenyl)]zirconium(IV)

Product code: EO03592

Company: INTATRADE Chemicals GmbH

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2. HAZARDS IDENTIFICATION

Classification of the substance

or mixture

GHS label elements

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.



Warning

Hazard pictograms

Signal word

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements P231 Handle under inert gas.

P222 Do not allow contact with air.

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

rinsina

P403+P233 Store in a well-ventilated place. Keep container tightly

closed.

P422 Store contents under inert gas.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4) Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4) Health = 1

Fire = 0

Reactivity = 0

Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No. 100080-82-8

4. FIRST-AID MEASURES

Description of first aid measures

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

symptoms persist, consult a doctor.

If symptoms persist consult doctor. After swallowing:

Most important symptoms and effects, both acute and delayed -Information for doctor:

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:

Special hazards arising from

the substance or mixture

Advice for firefighters Protective equipment: Use fire fighting measures that suit the environment.

No further relevant information available.

No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures Not required.

Environmental precautions: No special measures required.

Methods and material for

containment and cleaning up: Dispose contaminated material as waste according to item 13..

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 Open and handle receptacle with care.

Information about protection

against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage: Store contents under inert gas.

Requirements to be met by

storerooms and receptacles: No special requirements.

Information about storage in one

common storage facility: Not required.

Further information about Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles. storage conditions:

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

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.

Avoid contact with the eves and skin.

Breathing equipment:

Protection of hands:

Not required.

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

General Information

Appearance:

Form: Powder

Color: Light orange color

Odor: Acidic

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

Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
Flash point: Undetermined.
Not applicable.
Flammability (solid, gaseous): Not determined.

Ignition temperature:

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

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

Explosion limits:

Lower:
Upper:
Not determined.
Vapor pressure:
Not applicable.
Density:
Not determined.
Not determined.
Not determined.
Not determined.
Not applicable.
Evaporation rate
Not applicable.

Solubility in / Miscibility with

Water: Insoluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable. Kinematic: Not applicable.

Solvent content:

Organic solvents: 0.0 %

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

Solids content: 100.0 %

Other information No further relevant information available.

10. STABILITY AND REACTIVITY

No further relevant information available. Reactivity

Chemical stability Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

No dangerous reactions known. Possibility of hazardous reactions

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: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

Carcinogenic categories IARC (International Agency for Research on Cancer)

Substance is not listed.

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. No further relevant information available. Mobility in soil

Additional ecological information:

Not known to be hazardous to water. General notes:

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, ADN, IMDG, IATA not regulated

UN proper shipping name

DOT, ADN, IMDG, IATA not regulated

Transport hazard class(es)

DOT, ADN, IMDG, IATA Class not regulated

Packing group

DOT, IMDG, IATA not regulated Environmental hazards: Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and Marine pollutant: No Not applicable.

the IBC Code UN "Model Regulation":

Not applicable. not regulated

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 not 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.

Carcinogenic categories 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

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.