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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: Iron (III) tert-butoxide, 99,9% Fe

Product code: EO00056

Company: INTATRADE Chemicals GmbH

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2. HAZARDS IDENTIFICATION

Classification of the substance

or mixture

Classification according to Regulation (EC) No 1272/2008

[EU-GHS/CLP]

Flammable solids (Category 2) Skin irritation (Category 2) Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Classification according to

EU Directives 67/548/EEC

or 1999/45/EC Label elements

Flammable. Irritating to eyes, respiratory system and skin. Labelling according Regulation (EC) No 1272/2008 [CLP]





Pictogram Signal word

Hazard statement(s)

Warning H228 Flammable solid

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s)

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

smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Supplemental Hazard Statements none

According to European Directive 67/548/EEC as amended.

Hazard symbol(s) X

R-phrase(s) R10 Flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

Other hazards none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dinuclear iron(III) tert-butoxide complex Synonyms:

Bis[u-(tertbutanolato)]tetrakis[(tertbutanolato)]di-iron Bis[mu-(2-methyl-2-propanolato)]tetrakis(2-methyl-2-

propanolato)diiron stereoisomer

Formula: C24H54Fe2O6 550,37 g/mol Molecular Weight: CAS-No. 620945-29-1

4. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in

attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

Wash off with soap and plenty of water. Consult a physician. In case of skin contact In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth with water.

Consult a physician.

Most important symptoms and effects, both acute and delayed Indication of immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Special hazards arising from the substance or mixture Precautions for fire-fighters

Further information

Carbon oxides, Iron oxides

Wear self contained breathing apparatus for fire fighting if necessary.

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.

Methods and materials for containment and cleaning up Sweep up and shovel. 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. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see

section 13).

Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. 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

including any incompatibilities ventilated place.

Store under inert gas. Air and moisture sensitive.

Specific end uses no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Components with workplace control parameters

Exposure controls Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment

for eye protection tested and approved under appropriate government

standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper

glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU

Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection Impervious clothing, Flame retardant antistatic protective clothing, The

type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: solid Colour: solid brown

Odour no data available
Odour Threshold no data available
pH no data available
Melting/freezing point no data available
Initial boiling point and boiling range no data available
Flash point no data available
Evaporation rate no data available

Flammability (solid, gas)

The substance or mixture is a flammable solid with the subcategory 2.

Upper/lower flammability or

explosive limits no data available Vapour pressure no data available Vapour density no data available Relative density no data available Water solubility no data available Partition coefficient: noctanol/water no data available Autoignition temperature no data available Decomposition temperature no data available Viscosity no data available Explosive properties no data available Oxidizing properties no data available Other safety information no data available

10. STABILITY AND REACTIVITY

Chemical stability no data available Possibility of hazardous reactions no data available

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents

Hazardous decomposition products Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity no data available Skin corrosion/irritation no data available Serious eve damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available

Carcinogenicity IARC: No component of this product present at levels greater than or

Inhalation - May cause respiratory irritation.

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC. no data available

no data available

no data available

Reproductive toxicity

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Aspiration hazard Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

May be harmful if absorbed through skin. Causes skin irritation. Skin

Causes serious eve irritation. Eyes

Additional Information RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity no data available Persistence and degradability no data available Bioaccumulative potential no data available Mobility in soil no data available

Results of PBT and

vPvB assessment no data available Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Burn in a chemical incinerator equipped with an afterburner and

> scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal

service to dispose of this material.

Dispose of as unused product. Contaminated packaging

14. TRANSPORT INFORMATION

ADR/RID: 3181 IMDG: 3181 IATA: 3181 **UN-Number**

UN proper shipping name

ADR/RID: METAL SALTS OF ORGANIC COMPOUNDS. FLAMMABLE.

N.O.S. (Iron (III) tert-butoxide dimer)

METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, IMDG:

IATA: Metal salts of organic compounds, flammable, n.o.s. (Iron (III) tert-

butoxide dimer)

Transport hazard class(es) ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1 Packaging group ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for users no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific

for the substance or mixture no data available Chemical Safety Assessment no data available

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.