1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Titanium(IV) fluoride Product name

2. HAZARDS IDENTIFICATION Classification of the substance or mixture

According to Regulation (EC) No1272/2008 Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4)

Acute toxicity, Oral (Category 4) Skin corrosion (Category 1B)

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

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Label elements

Pictogram

Signal word

Danger

Hazard statement(s)

H302

Harmful if swallowed. H314 Causes severe skin burns and eye damage.

H312 Harmful in contact with skin.

Harmful if inhaled. H332 Precautionary statement(s)

P280

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Hazard symbol(s) C Corrosive

R-phrase(s)

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. R34

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

F4Ti

123,86 g/mol

S27

After contact with skin, wash immediately with plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately

Take off immediately all contaminated clothing.

Classification

Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302, H312,

Concentration

(show the label where possible). Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight

CAS-No. EC-No.

Titanium tetrafluoride

H314, H332 C, R20/21/22 - R34 For the full text of the H-Statements mentioned in this Section, see Section 16. 4. FIRST AID MEASURES General advice

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a

In case of eye contact

If swallowed

5. FIRE-FIGHTING MEASURES

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Special protective equipment for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Conditions for safe storage

Moisture sensitive.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator

respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and

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.

Personal protective equipment

Eye protection Face shield and safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at

Appearance powder

9. PHYSICAL AND CHEMICAL PROPERTIES

white

no data available

no data available

2,798 g/cm3 at 25 °C

no data available

the end of workday.

Melting point no data available Boiling point no data available Flash point not applicable

Lower explosion limit no data available Upper explosion limit no data available

Stable under recommended storage conditions. Do not allow water to enter container because of violent reaction. Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Hydrogen fluoride, Titanium/titanium oxides

no data available Respiratory or skin sensitization no data available

Serious eye damage/eye irritation

Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects

pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea **Additional Information**

skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi,

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and

membranes and upper respiratory tract. Harmful if swallowed. Causes burns.

Causes eye burns.

Harmful if absorbed through skin. Causes skin burns.

Packing group: II

Packing group: II

Packing group: II

EMS-No: F-A, S-B

Harmful if inhaled. Material is extremely destructive to the tissue of the mucous

no data available Mobility in soil no data available

no data available 13. DISPOSAL CONSIDERATIONS **Product**

14. TRANSPORT INFORMATION UN-Number: 3260 Class: 8

IATA UN-Number: 3260 Class: 8 Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Titanium tetrafluoride)

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 16. OTHER INFORMATION

Serious eye damage Eye Dam. H302 Harmful if swallowed. H312 Harmful in contact with skin.

Acute toxicity

H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. Skin corrosion

 \mathbf{C} Corrosive R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. Causes burns.

Further information

For R&D use only. Not for drug, household or other uses. 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. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

R20/21/22

S-phrase(s)

S28

S45

Formula

7783-63-3

232-017-6

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

physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Suitable extinguishing media

6. ACCIDENTAL RELEASE MEASURES Evacuate personnel to safe areas.

7. HANDLING AND STORAGE

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

protection.

type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

Form Colour Safety data рΗ

Density Water solubility 10. STABILITY AND REACTIVITY Chemical stability Conditions to avoid Materials to avoid

Ignition temperature

11. TOXICOLOGICAL INFORMATION **Acute toxicity** no data available Skin corrosion/irritation no data available

> Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Ingestion

Signs and Symptoms of Exposure

Toxicity no data available

12. ECOLOGICAL INFORMATION

RTECS: Not available

PBT and vPvB assessment no data available Other adverse effects

ADR/RID Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Titanium tetrafluoride)

15. REGULATORY INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3 Acute Tox.

Skin Corr. R34

Inhalation Skin Eyes

> Persistence and degradability no data available **Bioaccumulative potential**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

IMDG UN-Number: 3260 Class: 8 Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Titanium tetrafluoride) Marine pollutant: No

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