

SAFETY DATA SHEET

604 TIZOX - TABLET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	604 TIZOX
Synonyms:	N/A
Active ingredient:	Titanium granules, Potassium Fluoborate
CAS-No. :	Titanium Granules: 7440-32-6 Potassium Fluoborate: 14075-53-7
Recommended use(s) of the chemical and restrictions on use:	Tablet for use in foundry industry as an alloying additive and for grain refining of Aluminum and Aluminum alloys
Supplier's details:	Skyline Chemical Corp. P.O. Box 53663, Irvine, California 92619 Tel +1-714-290-8866
Emergency phone number:	CHEMTREC 1-800-424-9300 or +1-703-741-5500 (24 hour emergency response number)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Non-hazardous product. No classification has been assigned.

2.2 GHS Label elements

Not applicable - Non-hazardous.

Hazard pictograms N/A

Signal word: None

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:

Do not ingest or inhale. Avoid contact with eyes, skin and clothing. Always use NIOSH approved respirator, goggles and gloves. In case of over exposure get medical attention immediately.
Do not eat or drink while using this product.

NFPA Rating

Health	0
Fire	0
Reactivity	0

Supplemental hazard

Health Statements

Medical Condition Aggravated by Exposure

Powder or residue may aggravate preexisting respiratory conditions.

Potential Health Effects

Inhalation: May cause difficulty breathing, irritation of the respiratory tract, chest pain.

Ingestion: Harmful if swallowed. May cause damage to internal organs.

Eye contact: Causes short term eye irritation.

Skin contact: No significant effects on contact with skin.

Potential Environmental Effects

No Information Available.

Symptoms of Exposure

May cause irritation of respiratory tract, skin, or eyes.

Target Organs

Mucus Membranes

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Component(s) : Titanium Granules, Potassium Fluoborate

Ingredient	CAS #	Percent
Titanium Granules	7440-32-6	50-60%
Potassium Fluoborate	14075-53-7	40-50%

4. FIRST-AID MEASURES

Description of first aid measures**General advice**

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

If inhaled

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

In case of skin contact

Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

In case of eye contact

Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Dilution of swallowed product must be performed carefully, by a physician. Get immediate medical attention. Close observation required for 24-48 hours.

5. FIREFIGHTING MEASURES

Extinguishing media**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use dry sand, table salt, dry chemical, Class D fire extinguisher or alcohol-resistant foam to contain fire.

Do not use water.

Unsuitable extinguishing media

Water, Foam.

Special hazards arising from the substance or mixture**Flammable Properties:**

Product is non-flammable. Poisonous gases are produced in fire. When exposed to an ignition source, the product may ignite, and burn with intense heat and a large quantity of smoke. Do not extinguish with water.

Advice for firefighters**Suitable Extinguishing Media**

Use Class D fire extinguisher; table salt; sand; dry ground dolomite; or dry powder extinguishing agents. Do not use water directly on fire. Do not get water inside container. In case of large fire, let the fire burn. Isolate area, keep unnecessary people away.

Unsuitable Extinguishing Media

Do not spray water. Carbon Dioxide is NOT effective as an extinguisher. Personnel should evacuate and not attempt to extinguish the fire.

Special Fire Fighting Procedures

Small fires can be smothered with table salt, sand or by use of type D extinguishing material. For large fires, it is advisable to allow the material, if contained, to burn out. If containment is not possible, call 911.

Protective Actions for firefighters:

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Irritating and highly toxic gases may be generated in fire. Avoid inhalation of fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Avoid breathing dust, vapors, mist or gas. Remove all ignition sources. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Recover for reuse if not contaminated. Remove all sources of ignition. Cover drains. Sweep, vacuum up and place in a suitable container for proper disposal. Clean up affected area. Avoid generation of dust. Do not use compressed air. Sweep up and shovel. Place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from open flames and other sources of ignition. Provide appropriate exhaust ventilation at places where dust is formed. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts or fume. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse. Immediately change contaminated clothing.

Conditions for safe storage, including any incompatibilities

Store indoors in a cool, dry, well-ventilated area. Store away from excessive heat, welding, grinding, or torching operations. Keep a Class D fire extinguisher near the processing and storage areas. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Ventilation

Use process enclosures, local exhaust ventilation or other engineering controls to reduce dust concentrations to an acceptable level.

Control of environmental exposure

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

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

Tightly fitting safety goggles conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Contact lenses may pose a hazard as it may absorb irritants.

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 - users should wash their hands and face before eating, drinking or using tobacco products.

Body Protection

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).

Safe & adequate respiratory protection must be worn by the operators & persons handling this product. Additional Protective Measures: Emergency showers and eye wash stations should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on physical and chemical properties

• Appearance	Form: Tablet Color: Dark grey
• Odor	Odorless
• Melting point	Appox 1700°C (3092°F)
• Solubility in water	Insoluble
• Vapor Density (air = 1)	No data available
• Vapor Pressure	No data available
• Flashpoint	N/A
• Ignition Temperature	No data available
• Flammability	Non flammable

10. STABILITY AND REACTIVITY

Stability	Stable material at room temperature under normal storage and handling conditions.
Incompatible materials	Acids, moisture, interhalogens/halogenated compounds, oxygen, oxidizing agents, acids, chlorinated solvents.
Hazardous Decomposition Products	Irritating fumes and gases, titanium oxide, metallic oxides and dust
Possibility of Hazardous Reactions	May react violently with interhalogens/halogenated compounds, oxidizing agents, strong acids, chlorinated solvents. Reactions with incompatible materials may result in irritating or toxic gas and large release of intense heat. Will burn in nitrogen and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: No information is available on the LC₅₀ or LD₅₀ of the product.

Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane.

Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Skin corrosion/irritation: Fines and dust may cause irritation to skin

Serious eye damage/irritation: Fines and dust may cause irritation to eyes

Oral effects/irritation: May cause irritation of the digestive tract.

Inhalation effects/irritation: May cause irritation of the respiratory tract.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: 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.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

Potential health effects:

Inhalation: Inhalation of dust/residue may cause irritation

Ingestion: Ingestion may cause irritation

Skin: Skin contact may cause mild irritation

Eyes: Eye contact may cause irritation

Signs and symptoms of exposure: Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS: No data 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: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Contaminated packaging Dispose of as unused product.

Disposal

Keep out of drinking water sources. Prevent material from entering storm sewers or ditches leading to natural waterways. Dispose in accordance with local, state and federal regulations.

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Container disposal

Observe all precautions. Remove all residue from container and then dispose off container in permitted facility. Do not use empty container for food stuff, etc. Keep away from children. Do not dump into sewers, on the ground, or into any body of water.

Product

Reuse or recycle material whenever possible. Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave product in original containers. Do not mix with other chemicals or waste. Handle un-cleaned containers with same precautions.

14. TRANSPORT INFORMATION

Not considered as hazardous or dangerous goods.

15. REGULATORY INFORMATION

TSCA Listed: CAS# 7440-32-6 is listed on the TSCA inventory.
CAS# 14075-53-7 is listed on the TSCA inventory.

SARA TITLE III:

SARA section 302 : Not regulated

SARA section 304 : Not regulated

SARA section 313 : Not regulated

SARA 311/312 Hazards

Acute Health Hazard: No

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Date prepared: August 15, 2016

The information provided above is believed to be accurate and represent the best and most recent information currently available to us. However we make no guarantee/warranty or implant ability or any other warranty, expressed or implied and we assume no liability resulting from its use, handling or contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. Information provided in this document is based on present knowledge available and is applicable to the product with regard to appropriate safety precautions. Information is not intended to be all inclusive and shall be used only as a guide or for reference. Skyline Chemical Corp shall not be held liable for any damage resulting from handling the above product.