

## Safety Data Sheet

### Taurus TS4- Activador

Revision date: 05.08.2025

#### Section 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier:** Taurus TS4 Activador

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture**

Taurus Polymer Composite. To be mixed with Taurus TS4 - Base to provide protection in corrosive environments.

**Uses advised against**

No information available

**1.3. Details of the supplier of the safety data sheet**

Company name: Taurus Epoxy, Inc.

Street: 4450 NW 126<sup>th</sup> Ave. Suite 107. Coral Springs, FL 33065 USA

Telephone: +1 (561) 757-5620

e-mail: [taurus@taurusepoxy.com](mailto:taurus@taurusepoxy.com)

Internet: [www.taurusepoxy.com](http://www.taurusepoxy.com)

**1.3. Emergency telephone number:** +1 (561) 757-5620

#### Section 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Regulation (EC) No. 1272/2008**

Signal word: Danger



Pictograms:

**Hazard statements**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention:**

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.

**Storage:**

- P405 Store locked up.

**Disposal:**

- P501 Dispose of contents/container to an approved facility in accordance with local, regional, national, and international regulations.

**2.3. Other hazards**

This product is classified as hazardous as defined within the GHS OSHA Hazard Communication Standard 29CFR1910. 1200. The safety and health hazards are detailed separately for Activator and Base. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Activator and Base.

**Section 3: Composition/information on ingredients**

**3.1 Substances**

N/A

**3.2 Mixtures**

Component	CAS Number	Composition
Benzyl alcohol	100-51-6	1-25%
3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2	1-5%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3- epoxypropane, reaction products with mphenylenebis(methylamine)	110839-13-9	5-20%
m-phenylenebis(methylamine)	1477-55-0	1-5%

Silicones and Siloxanes	677762-90-7	1-5%
3-Glycidoxypropyltrimethoxysilane	2530-83-8	1-5%
Bauxite	92797-42-7	30-70%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4: First aid measures

### 4.1. Description of first aid measures

#### **General Information**

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### **After inhalation**

In case of inhalation move person to fresh air and keep at rest in a position comfortable for breathing; if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; get medical attention.

#### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.

Do not wash with: Solvents/Thinner

#### **After contact with eyes**

Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids, then consult an ophthalmologist immediately.

#### **After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting

### 4.2. Most important symptoms and effects, both acute and delayed

Harmful if swallowed and if inhaled; can cause severe skin burns and eye damage; sensitizer.

### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

Eye wash stations and emergency showers should be available.

## Section 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). alcohol resistant foam. Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire (especially in between 400°C and 700°C); smoke may contain particles of the original material as well.

### 5.3. Advice for firefighters

Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Move containers from fire area if you do it without risk. Dike fire control water for later disposal; prevent runoff from

entering drains. Cool fire exposed containers with water stream. Do not use high volume water jet on the fire as this may spread the area of the fire. Co-ordinate fire-fighting measures to the fire surroundings.

Additional information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment, and emergency procedures

Isolate area; ensure adequate ventilation; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes, and clothing; keep unnecessary and unprotected personnel from entering the involved area. Local authorities should be advised if significant spillages cannot be contained.

### 6.2. Environmental precautions

Do not allow to enter surface water or drains. Cover drains. Adverse environmental effects

### 6.3. Methods and material for containment and cleaning up

Soak up with sand, earth, diatomaceous earth, or other suitable inert absorbent material (e.g. sand, diatomaceous earth, acid- or universal binding agents); collect into suitable waste disposal containers. Reuse uncontaminated material when possible. Wash spillage site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations

### 6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Prevent inhalation of vapor, ingestion, and contact with skin, eyes, and clothing. Keep containers closed when not in use. Precautions apply to empty containers as well. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of mixers, reactors or other equipment containing the material. Advice on protection against fire and explosion: Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container. Store away from foodstuffs and all incompatible material. Keep container tightly closed when not in use.

#### Further information on storage conditions

Keep away from: Frost, Heat and Humidity

**Incompatibilities: Do not store together with strong oxidizing agents.**

### 7.3. Specific end use(s)

No information available.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits:** None assigned

The AIHA recommended WEEL (workplace environmental exposure level) for Benzyl alcohol is 10 ppm (8h-TWA) (45 mg/m<sup>3</sup>).

### 8.1.2 Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference can be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents for the determination of hazardous substances.

## **8.2. Exposure controls**

### **Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations

### **Protective and hygiene measures**

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes, and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

### **Eye/face protection**

Suitable eye protection: Eyeglasses with side protection (goggles). Refer to OSHA Standard 29CFR1910.133 and European Standard EN166.

### **Hand protection**

Use protective gloves. It can be NBR (Nitrile rubber) or Butyl caoutchouc (butyl rubber).

### **Skin protection**

Wear impervious clothing as necessary to protect against product contact. Necessity for boots, apron, face shield, etc. will be dependent on any hazards presented in the work process. Refer to CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear.

### **Respiratory protection**

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device (EN 14387) A-P3. Self-contained respirator (breathing apparatus) (DIN EN 133).

**Other Protective Equipment:** The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals: use professional care in their selection, use and care.

## **8.3 Environmental exposure controls**

Observe all precautions to prevent contamination of soil and waterways.

## **Section 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

#### **9.1.1 General information:**

Appearance: Putty

Color: Light grey

Type of Odor: Mild amine-like

Odor Threshold: No data available

#### **9.1.2 Important health, safety, and environmental information:**

Boiling Point: >205°C (>401°F)

Melting Point: No data available

Flash Point: >101°C (>214°F) (cc)

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Flammability Limits (lower/upper): No data available

Vapor Pressure: No data available

Vapor Density (Air=1): No data available

Evaporation Rate (BuAc=1): No data available

Specific Gravity: 1.62

Water Solubility: Partially soluble

pH: No data available  
Viscosity: Putty @ 25°C  
Explosive Properties: Not explosive  
Oxidizing Properties: Not determined  
Molecular Formula: (mixture)  
VOC Content: <1%

**9.2. Other information** No information available

## Section 10: Stability and reactivity

### **10.1. Reactivity**

No dangerous reaction is known under normal use and storage conditions.

### **10.2. Chemical stability**

Does not decompose when used for intended uses. No known hazardous decomposition products

### **10.3. Possibility of hazardous reactions**

Mixtures with strongly acidic materials may produce an exothermic reaction.

### **10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### **10.5. Incompatible materials**

Acids, oxidizing agents, epoxies, isocyanates.

### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses

Thermal decomposition will generate carbon monoxide, carbon dioxide and nitrogen oxides.

## Section 11: Toxicological information

### **11.1. Information on toxicological effects**

**Acute Oral Toxicity:** LD50(rat): 690 mg/kg (ATE)

**Acute Dermal Toxicity:** LD50(rabbit): 2188 mg/kg (ATE)

**Acute Inhalation Toxicity:** LD50(rabbit): >900 mg/m<sup>3</sup> (Salicylic acid)

**Skin Corrosion/Irritation:** Draize Test: Rabbit/skin: Irritating

**Serious Eye Damage/Irritation:** Draize Test: Rabbit/eye: Irritating

**Skin Sensitization (guinea pig):** Sensitizer

**Germ Cell Mutagenicity:** Not classified as mutagenic

**Carcinogenicity:** Not classified as carcinogenic. Not listed by OSHA/NTP/IARC.

**Reproductive Toxicity:** Not classified as a reproductive toxicant

**Specific Target Organ Toxicity - single exposure (STOT-se):** Product not classified based on available data.

**Specific Target Organ Toxicity - repeated exposure (STOT-re):** May cause damage to the liver and skeletal muscles through prolonged or repeated oral exposure.

**NOAEL: (oral, rat):** 15 mg/kg body weight per day.

**Aspiration Hazard:** Aspiration occurring while vomiting may cause lung damage.

### **Potential Health Effects:**

**Skin Contact:** May cause irritation, itching, reddening, inflammation; may be absorbed through the skin with CNS effects; may cause an allergic reaction.

**Eye Contact:** Causes serious eye damage; vapors are irritating and may cause damage to the eyes; contact may cause severe burns and permanent eye damage including blindness.

**Ingestion:** Harmful if swallowed; may cause severe and permanent damage to mouth, throat, and stomach; may lead to perforation of the intestine.

**Inhalation:** Harmful if inhaled; may cause severe irritation to the respiratory tract; may cause CNS symptoms including headache, nausea, mental confusion, blurred vision, fatigue, dizziness, and loss of coordination; prolonged overexposure may cause respiratory failure.

### **Chronic Health Effects:**

**Skin sensitizer:** once sensitized, a severe allergic reaction may occur when subsequently exposed to extremely low levels. After repeated high-dose oral exposure the substance causes adverse effects to the liver, kidneys.

**Additional Data:**

RTECS No. GV5020833 (PACM)

RTECS No. DN3150000 (Benzyl alcohol)

RTECS No. VO0525000 (Salicylic acid)

## Section 12: Ecological information

### 12.1. Toxicity

#### **12.1.1 Acute/prolonged toxicity to fish**

LC50(freshwater fish) (96-hr): 10 mg/l (ATE)

#### **12.1.2 Acute/prolonged toxicity to aquatic invertebrates**

EC50(Daphnia magna) (48-hr): 10 mg/l (ATE)

#### **12.1.3 Acute/prolonged toxicity to aquatic plants**

EC50(algae)(72-hr): 16 mg/l (ATE)

#### **12.1.4 Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants**

No data available

#### **12.1.5 Chronic toxicity to aquatic organisms**

Long lasting adverse effects to aquatic organisms.

#### **12.1.6 General effect**

Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Not readily biodegradable.

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available; do not allow product to enter soil/subsoil.

### 12.5 Results of PBT and vPvB assessment (EC reg. 453/2010)

Product not classified as Persistent, Bioaccumulative and Toxic

Product not classified as very Persistent or very Bioaccumulative

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 German WGK classification

WGK = 1 (self-assessment)

### **12.7 Other adverse effects**

Neutralization may be required before discharging to wastewater treatment plants.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Advice on disposal**

Dispose of waste according to applicable legislation. Do not dump to ground, sewers, or watercourses. Incinerate or otherwise dispose of in compliance with all applicable federal, state, and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.

#### **Contaminated packaging**

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

## Section 14: Transport information

### 14.1 Shipping description

Non-Hazardous Material

Unregulated  
DOT Proper Shipping Description: Not regulated  
IMDG: Not regulated  
IATA: Not regulated

## Section 15: Regulatory information

### 15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture

**SARA Title III Section 311/312 (40CFR370):** Acute toxicity, Skin corrosion or irritation, serious eye damage or eye irritation

**SARA Title III Section 313 (40CFR372):** No reportable components

**CERCLA Status (40CFR302):** No reportable components (Release of a hazardous substance into the environment in an amount that equals or exceeds its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)

**RCRA Status (40CFR261):** Not listed

**OSHA/NTP/IARC Carcinogen Status:** Not listed

**TSCA Inventory Status:** Reported/included

**Canadian DSL Status:** Reported/included

**Canadian WHMIS Status:** D2B, E

**Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:** None known to be in the product at levels requiring a warning.

**REACH Annex XIV (SVHC)**

No listed components

**REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles)**

No listed components

**REACH Status (EC 1907/2006):** This material has been registered, pre-registered or is otherwise exempted from registration under the Registration, Evaluation and Authorization of Chemical Substances.

### 15.2. Chemical safety assessment

Not available



## Section 16: Other information

**HMIS ratings:**

Health: 2

Flammability: 1

Reactivity: 0

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process.)

**National chemical inventories** - All components of this product are listed on the following chemical substance inventories:

TSCA (USA)

DSL (Canada)

EINECS (Europe)

ENCS (Japan)

ECL (Korea)

AICS (Australia)

PICCS (Philippines)

IECSC (China)

NZIoC (New Zealand)

**Abbreviations and acronyms:**

ADR: Accord European sur le transport des marchandises dangerousness par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
ACGIH American Conference of Governmental Industrial Hygienists  
AICS Australian Inventory of Chemical Substances  
AIHA American Industrial Hygiene Association  
ATE Acute toxicity estimate  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
BfR Bundesinstitut für Risikobewertung recommendations for food contact materials  
BCF Bioconcentration Factor  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
CERCLA Comprehensive Environmental Response, Compensation and Liability Act  
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures  
DOT Department of Transportation  
DNEL: Derived No Effect Level  
DSL Domestic Substances List  
EINECS European Inventory of Existing Chemical Substances  
ECL Existing Chemicals List (Korea)  
EC50: Effective concentration, 50 percent  
ENCS Existing and New Chemical Substances Inventory (Japan)  
EN 689 Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy  
ERG Emergency Response Guide  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
HMIS Hazardous Materials Information System  
IARC International Agency for Research on Cancer  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
IDLH Immediately Dangerous to Life and Health  
IMDG International Maritime Dangerous Goods  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
MAK Maximale Arbeitsplatz Konzentration  
NOAEL No observable adverse effect level  
NTP National Toxicology Program  
OEL Occupational Exposure Limit  
OSHA Occupational Safety & Health Administration  
PBT Persistent, Bioaccumulative and Toxic  
PNEC: Predicted No Effect Concentration  
vPvB: very Persistent and very Bioaccumulative  
PEL Permissible exposure limit  
PICCS Philippine Inventory of Commercial Chemical Substances  
PNEC Predicted No Effect Concentration  
REACH Registration, evaluation, and authorization of chemical substances  
RID International carriage of dangerous goods by Rail  
SARA Superfund Amendments and Reauthorization Act  
STEL Short Term Exposure Limit  
SVHC Substance of Very High Concern



# TAURUS TS4

TLV Threshold Limit Value  
TSCA Toxic Substances Control Act  
TWA Time Weighted Average  
VOC Volatile organic compound  
WEEL Workplace Environmental Exposure Level  
WGK Wassergefährdungsklasse (Water Hazard Class)  
WHMIS Workplace Hazardous Material Identification System

## DISCLAIMER

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Date of issue: 05/08/2025

## Safety Data Sheet

### Taurus TS4 –Base

Revision date: 05.08.2025

#### Section 1: Identification of the substance/mixture and of the company/undertaking

**1.4. Product identifier:** Taurus TS4 Base

**1.5. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture**

Taurus Polymer Composite. To be mixed with Taurus TS4 - Activator to provide protection in corrosive environments.

**Uses advised against**

No information available

**1.3. Details of the supplier of the safety data sheet**

Company name: Taurus Epoxy, Inc.

Street: 4450 NW 126<sup>th</sup> Ave. Suite 107. Coral Springs, FL 33065 USA

Telephone: +1 (561) 757-5620

e-mail: [taurus@taurusepoxy.com](mailto:taurus@taurusepoxy.com)

Internet: [www.taurusepoxy.com](http://www.taurusepoxy.com)

**1.6. Emergency telephone number:** +1 (561) 757-5620

#### Section 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Regulation (EC) No. 1272/2008**

Signal word: Warning



Pictograms:

**Hazard statements**

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

- P261 Avoid breathing mist/vapors/spray.
- P264 Wash hands and skin contact areas thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.
- P501 Dispose of contents/container through a waste management company authorized by the local government.

**2.3. Other hazards**

This product is classified as hazardous as defined within the GHS OSHA Hazard Communication Standard 29CFR1910. 1200. The safety and health hazards are detailed separately for Activator and Base. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Activator and Base.

**Section 3: Composition/information on ingredients**

**3.1 Substances**

N/A

**3.2 Mixtures**

Component	CAS Number	Composition
Epoxy Phenol Novolac Resin	28064-14-4	20-40%
Silicones and Siloxanes	677762-90-7	1-5%
Iron Oxide	1317-61-9	1-5%
3-Glycidoxypropyltrimethoxysilane	2530-83-8	1-5%
Bauxite	92797-42-7	50-80%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

**Occupational exposure limits, if available, are listed in Section 8.**

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**General Information**

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## **After inhalation**

In case of inhalation move person to fresh air and keep at rest in a position comfortable for breathing; if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; get medical attention.

## **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.

Do not wash with: Solvents/Thinner

## **After contact with eyes**

Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids, then consult an ophthalmologist immediately.

## **After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting

## **4.2. Most important symptoms and effects, both acute and delayed**

Harmful if swallowed and if inhaled; can cause severe skin burns and eye damage; sensitizer.

## **4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

Eye wash stations and emergency showers should be available.

## **Section 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). alcohol resistant foam. Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire (especially in between 400°C and 700°C); smoke may contain particles of the original material as well.

### **5.3. Advice for firefighters**

Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Move containers from fire area if you do it without risk. Dike fire control water for later disposal; prevent runoff from entering drains. Cool fire exposed containers with water stream. Do not use high volume water jet on the fire as this may spread the area of the fire. Co-ordinate fire-fighting measures to the fire surroundings.

Additional information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **Section 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment, and emergency procedures**

Isolate area; ensure adequate ventilation; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes, and clothing; keep unnecessary and unprotected personnel from entering the involved area. Local authorities should be advised if significant spillages cannot be contained.

### **6.2. Environmental precautions**

Do not allow to enter surface water or drains. Cover drains. Adverse environmental effects

### **6.3. Methods and material for containment and cleaning up**

Soak up with sand, earth, diatomaceous earth, or other suitable inert absorbent material (e.g. sand, diatomaceous earth, acid- or universal binding agents); collect into suitable waste disposal containers. Reuse uncontaminated material when possible. Wash spillage site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations

#### **6.4. Reference to other sections**

See protective measures under point 7 and 8. Disposal: see section 13

### **Section 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Ensure adequate ventilation. Prevent inhalation of vapor, ingestion, and contact with skin, eyes, and clothing. Keep containers closed when not in use. Precautions apply to empty containers as well. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of mixers, reactors or other equipment containing the material. Advice on protection against fire and explosion: Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container. Store away from foodstuffs and all incompatible material. Keep container tightly closed when not in use.

##### **Further information on storage conditions**

Keep away from: Frost, Heat and Humidity

**Incompatibilities: Do not store together with strong oxidizing agents.**

#### **7.3. Specific end use(s)**

No information available.

### **Section 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

**Occupational exposure limits:** None assigned

The AIHA recommended WEEL (workplace environmental exposure level) for Benzyl alcohol is 10 ppm (8h-TWA) (45 mg/m<sup>3</sup>).

##### **8.1.2 Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference can be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents for the determination of hazardous substances.

#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations

##### **Protective and hygiene measures**

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes, and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

##### **Eye/face protection**

Suitable eye protection: Eyeglasses with side protection (goggles). Refer to OSHA Standard 29CFR1910.133 and European Standard EN166.

##### **Hand protection**

Use protective gloves. It can be NBR (Nitrile rubber) or Butyl caoutchouc (butyl rubber).

##### **Skin protection**

Wear impervious clothing as necessary to protect against product contact. Necessity for boots, apron, face shield, etc. will be dependent on any hazards presented in the work process. Refer to CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear.

### **Respiratory protection**

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device (EN 14387) A-P3. Self-contained respirator (breathing apparatus) (DIN EN 133).

**Other Protective Equipment:** The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals: use professional care in their selection, use and care.

### **8.3 Environmental exposure controls**

Observe all precautions to prevent contamination of soil and waterways.

## **Section 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

#### **9.1.1 General information:**

Appearance: Putty

Color: Dark grey

Type of Odor: Mild amine-like

Odor Threshold: No data available

#### **9.1.2 Important health, safety, and environmental information:**

Boiling Point: >205°C (>401°F)

Melting Point: No data available

Flash Point: >200°C (>392°F) (cc)

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Flammability Limits (lower/upper): No data available

Vapor Pressure: No data available

Vapor Density (Air=1): No data available

Evaporation Rate (BuAc=1): No data available

Specific Gravity: 1.72

Water Solubility: Partially soluble

pH: No data available

Viscosity: Putty @ 25°C

Explosive Properties: Not explosive

Oxidizing Properties: Not determined

Molecular Formula: (mixture)

VOC Content: <1%

#### **9.2. Other information** No information available

## **Section 10: Stability and reactivity**

### **10.1. Reactivity**

No dangerous reaction is known under normal use and storage conditions.

### **10.2. Chemical stability**

Does not decompose when used for intended uses. No known hazardous decomposition products

### **10.3. Possibility of hazardous reactions**

Mixtures with strongly acidic materials may produce an exothermic reaction.

#### **10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### **10.5. Incompatible materials**

Acids, oxidizing agents, epoxies, isocyanates.

#### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses

Thermal decomposition will generate carbon monoxide, carbon dioxide and nitrogen oxides.

### **Section 11: Toxicological information**

#### **11.1. Information on toxicological effects**

**Acute Oral Toxicity:** LD50(rat): 690 mg/kg (ATE)

**Acute Dermal Toxicity:** LD50(rabbit): 2188 mg/kg (ATE)

**Acute Inhalation Toxicity:** LD50(rabbit): >900 mg/m<sup>3</sup> (Salicylic acid)

**Skin Corrosion/Irritation:** Draize Test: Rabbit/skin: Irritating

**Serious Eye Damage/Irritation:** Draize Test: Rabbit/eye: Irritating

**Skin Sensitization (guinea pig):** Sensitizer

**Germ Cell Mutagenicity:** Not classified as mutagenic

**Carcinogenicity:** Not classified as carcinogenic. Not listed by OSHA/NTP/IARC.

**Reproductive Toxicity:** Not classified as a reproductive toxicant

**Specific Target Organ Toxicity - single exposure (STOT-se):** Product not classified based on available data.

**Specific Target Organ Toxicity - repeated exposure (STOT-re):** May cause damage to the liver and skeletal muscles through prolonged or repeated oral exposure.

**NOAEL: (oral, rat):** 15 mg/kg body weight per day.

**Aspiration Hazard:** Aspiration occurring while vomiting may cause lung damage.

#### **Potential Health Effects:**

**Skin Contact:** May cause irritation, itching, reddening, inflammation; may be absorbed through the skin with CNS effects; may cause an allergic reaction.

**Eye Contact:** Causes serious eye damage; vapors are irritating and may cause damage to the eyes; contact may cause severe burns and permanent eye damage including blindness.

**Ingestion:** Harmful if swallowed; may cause severe and permanent damage to mouth, throat, and stomach; may lead to perforation of the intestine.

**Inhalation:** Harmful if inhaled; may cause severe irritation to the respiratory tract; may cause CNS symptoms including headache, nausea, mental confusion, blurred vision, fatigue, dizziness, and loss of coordination; prolonged overexposure may cause respiratory failure.

#### **Chronic Health Effects:**

**Skin sensitizer:** once sensitized, a severe allergic reaction may occur when subsequently exposed to extremely low levels. After repeated high-dose oral exposure the substance causes adverse effects to the liver, kidneys.

#### **Additional Data:**

RTECS No. GV5020833 (PACM)

RTECS No. DN3150000 (Benzyl alcohol)

RTECS No. VO0525000 (Salicylic acid)

### **Section 12: Ecological information**

#### **12.1. Toxicity**

##### **12.1.1 Acute/prolonged toxicity to fish**

LC50(freshwater fish) (96-hr): 10 mg/l (ATE)

##### **12.1.2 Acute/prolonged toxicity to aquatic invertebrates**

EC50(Daphnia magna) (48-hr): 10 mg/l (ATE)

##### **12.1.3 Acute/prolonged toxicity to aquatic plants**

EC50(algae)(72-hr): 16 mg/l (ATE)

#### **12.1.4 Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants**

No data available

#### **12.1.5 Chronic toxicity to aquatic organisms**

Long lasting adverse effects to aquatic organisms.

#### **12.1.6 General effect**

Harmful to aquatic life with long lasting effects.

#### **12.2 Persistence and degradability**

Not readily biodegradable.

#### **12.3 Bioaccumulative potential**

No data available

#### **12.4 Mobility in soil**

No data available; do not allow product to enter soil/subsoil.

#### **12.5 Results of PBT and vPvB assessment (EC reg. 453/2010)**

Product not classified as Persistent, Bioaccumulative and Toxic

Product not classified as very Persistent or very Bioaccumulative

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### **12.6 German WGK classification**

WGK = 1 (self-assessment)

#### **12.7 Other adverse effects**

Neutralization may be required before discharging to wastewater treatment plants.

### **Section 13: Disposal considerations**

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Dispose of waste according to applicable legislation. Do not dump to ground, sewers, or watercourses. Incinerate or otherwise dispose of in compliance with all applicable federal, state, and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.

##### **Contaminated packaging**

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

### **Section 14: Transport information**

#### **14.1 Shipping description**

Non-Hazardous Material

Unregulated

DOT Proper Shipping Description: Not regulated

IMDG: Not regulated

IATA: Not regulated

### **Section 15: Regulatory information**

#### **15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture**

**SARA Title III Section 311/312 (40CFR370):** Acute toxicity, Skin corrosion or irritation, serious eye damage or eye irritation

**SARA Title III Section 313 (40CFR372):** No reportable components

**CERCLA Status (40CFR302):** No reportable components (Release of a hazardous substance into the environment in an amount that equals or exceeds its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)

**RCRA Status (40CFR261):** Not listed

**OSHA/NTP/IARC Carcinogen Status:** Not listed

**TSCA Inventory Status:** Reported/included

**Canadian DSL Status:** Reported/included

**Canadian WHMIS Status:** D2B, E

**Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:** None known to be in the product at levels requiring a warning.

**REACH Annex XIV (SVHC)**

No listed components

**REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles)**

No listed components

**REACH Status (EC 1907/2006):** This material has been registered, pre-registered or is otherwise exempted from registration under the Registration, Evaluation and Authorization of Chemical Substances.

## 15.2. Chemical safety assessment

Not available



## **Section 16: Other information**

**HMIS ratings:**

Health: 2

Flammability: 1

Reactivity: 0

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process.)

**National chemical inventories** - All components of this product are listed on the following chemical substance inventories:

TSCA (USA)

DSL (Canada)

EINECS (Europe)

ENCS (Japan)

ECL (Korea)

AICS (Australia)

PICCS (Philippines)

IECSC (China)

NZIoC (New Zealand)

## **Abbreviations and acronyms:**

ADR: Accord Européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

ACGIH American Conference of Governmental Industrial Hygienists

AICS Australian Inventory of Chemical Substances

AIHA American Industrial Hygiene Association

ATE Acute toxicity estimate

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

BfR Bundesinstitut für Risikobewertung recommendations for food contact materials

BCF Bioconcentration Factor

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DOT Department of Transportation

DNEL: Derived No Effect Level  
DSL Domestic Substances List  
EINECS European Inventory of Existing Chemical Substances  
ECL Existing Chemicals List (Korea)  
EC50: Effective concentration, 50 percent  
ENCS Existing and New Chemical Substances Inventory (Japan)  
EN 689 Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy  
ERG Emergency Response Guide  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
HMIS Hazardous Materials Information System  
IARC International Agency for Research on Cancer  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
IDLH Immediately Dangerous to Life and Health  
IMDG International Maritime Dangerous Goods  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
MAK Maximale Arbeitsplatz Konzentration  
NOAEL No observable adverse effect level  
NTP National Toxicology Program  
OEL Occupational Exposure Limit  
OSHA Occupational Safety & Health Administration  
PBT Persistent, Bioaccumulative and Toxic  
PNEC: Predicted No Effect Concentration  
vPvB: very Persistent and very Bioaccumulative  
PEL Permissible exposure limit  
PICCS Philippine Inventory of Commercial Chemical Substances  
PNEC Predicted No Effect Concentration  
REACH Registration, evaluation, and authorization of chemical substances  
RID International carriage of dangerous goods by Rail  
SARA Superfund Amendments and Reauthorization Act  
STEL Short Term Exposure Limit  
SVHC Substance of Very High Concern  
TLV Threshold Limit Value  
TSCA Toxic Substances Control Act  
TWA Time Weighted Average  
VOC Volatile organic compound  
WEEL Workplace Environmental Exposure Level  
WGK Wassergefährdungsklasse (Water Hazard Class)  
WHMIS Workplace Hazardous Material Identification System



# TAURUS TS4

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Date of issue: 05/08/2025