

Safety Data Sheet AKT889.3
Date of issue: 02/18/2016 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : TITANIUM TRIS(DODECYLBENZENESULFONATE)ISOPROPOXIDE, tech-90

Product code : AKT889.3 Formula : C57H88O10S3Ti

Synonyms : TRIS(DODECYLBENZENESULFONATO)ISOPROPYLTITANATE;

TRIS(DODECYLBENZENESULPHONATO-O)(PROPAN-2-OLATO)TITANIUM

Chemical family : METAL ESTER

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

Use of the substance/mixture : Chemical intermediate

For research and industrial use only

1.3. Details of the supplier of the safety data sheet

GELEST, INC.

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Eye Irrit. 2A H319

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Substance type : Multi-constituent

Name : TITANIUM TRIS(DODECYLBENZENESULFONATE)ISOPROPOXIDE, tech-90

CAS No : 61417-55-8 EC no : 262-777-4

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Name	Product identifier	%	GHS-US classification
Tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium	(CAS No) 61417-55-8	85 - 100	Eye Irrit. 2A, H319
Other titanate esters		0 - 15	Not classified

Mixture

Not applicable

SECTION 4: First aid measures

First-aid measures after inhalation

Description of first aid measures

First-aid measures general Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

: Never give anything by mouth to an unconscious person. Get medical advice/attention. First-aid measures after ingestion

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

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : Causes serious eye irritation. : No information available. Symptoms/injuries after ingestion

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapor and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

: Wear protective equipment as described in Section 8. Protective equipment

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

Methods for cleaning up Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or

shovel spills into appropriate container for disposal.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and

receiving equipment. Use only in well ventilated areas.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Oxidizing agent.

Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

: No data available

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. NIOSH-certified organic vapor (black cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid. Viscous.

Molecular mass : 1077.4 g/mol

Color : Red to dark amber.

Odor : No data available

Odor threshold : No data available

Refractive index pH : No data available

Melting point : < 20 °C

Relative evaporation rate (butyl acetate=1)

Freezing point : No data available
Boiling point : No data available

Flash point : 97 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

Relative density : 1.08 VOC content : < 10 %

Solubility : Reacts with water.
Log Pow : No data available
Log Kow : No data available

Viscosity, kinematic : 8000 cSt

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

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Explosion limits : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability

Stable in sealed containers.

Possibility of hazardous reactions

Material decomposes slowly in contact with moist air and in contact with water.

Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agent.

Hazardous decomposition products

Butenes. Isopropanol. Organic acid vapors. Titanium oxide.

SECTION 11: Toxicological information

Information on toxicological effects

: Not classified Acute toxicity : Not classified Skin corrosion/irritation

Serious eye damage/irritation Causes serious eye irritation.

Isostearyl alcohol is slightly irritating

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Not classified Carcinogenicity Not classified Reproductive toxicity Specific target organ toxicity (single exposure) Not classified Not classified

Specific target organ toxicity (repeated

exposure)

Aspiration hazard

: Not classified

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms/injuries after ingestion : No information available.

Reason for classification : Expert judgment

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

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Waste disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport.

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium (61417-55-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium (61417-55-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

TITANIUM TRIS(DODECYLBENZENESULFONATE)ISOPROPOXIDE, tech-90(61417-55-8)						
U.S California - Proposition 65 - Carcinogens List	No					
U.S California - Proposition 65 - Developmental Toxicity	No					
U.S California - Proposition 65 - Reproductive Toxicity - Female	No					
U.S California - Proposition 65 - Reproductive Toxicity - Male	No					

Tris(dodecylbenzenesulphonato-O)(propan-2-olato)titanium (61417-55-8) U.S. - California -U.S. - California -U.S. - California -U.S. - California -Non-significant risk level Proposition 65 -Proposition 65 -Proposition 65 -Proposition 65 -(NSRL) Carcinogens List Developmental Toxicity Reproductive Toxicity -Reproductive Toxicity -Female Male No No No No

Other titanate esters				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	Non-significant risk level (NSRL)
Carcinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	

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SECTION 16: Other information

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

H319 Causes serious eye irritation

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard Physical : 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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