

Revision date: 03-Nov-2010

Supersedes: New MSDS

MSDS Number: 12667

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

Product name: TINT-AYD® HS 20003 TW White

Product Use Description: Pigment dispersion

Company/Undertaking Identification:

Elementis Specialties, Inc.	Elementis UK Ltd.
329 Wyckoffs Mill Road	c/o Elementis GmbH
Hightstown, NJ 08520	Stolberger Str. 370
USA	50933 Cologne, Germany
Tel: (609) 443-2000	Tel. +49 (0) 221 2923 2000

Emergency telephone number: CHEMTREC Emergency Response Number: 1-800-424-9300 (1-703-527-3887)
SGS Emergency Response Number: + 32 (0)3 575 55 55

Product_Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Liquid
Color: White
Odor: Nearly odorless

WARNING

Harmful by inhalation and if swallowed
Irritating to respiratory system
May cause slight eye irritation
May cause skin irritation and/or dermatitis
CONTAINS TITANIUM DIOXIDE WHICH MAY CAUSE CANCER
Risk of cancer depends on level and duration of exposure
Long term exposure to airborne concentrations may cause lung damage

Potential health effects:

Eye contact: May cause slight eye irritation. Signs and symptoms include burning, tearing, redness and swelling.

Skin contact: May cause skin irritation and/or dermatitis.

Inhalation: Harmful by inhalation. Irritating to respiratory system.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Routes of exposure: Inhalation, Skin, Ingestion

Target Organs: Lungs

See Sections 11 & 12 for additional toxicological and ecological information

Environmental hazard: See Section 12, below

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Components	CAS-No	Weight %
Titanium dioxide	13463-67-7	50 - 100%
Isotridecylalcohol, ethoxylated, phosphated, compd. with N,N-dimethylcyclohexanamine	164383-18-0	2.5 - 10%

This product is considered hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.

Skin contact: If a person feels unwell or symptoms of skin irritation appear, consult a physician. Wash off immediately with soap and plenty of water.

Eye contact: Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash Point: 230 °F / 110 °C

Flash Point Method: ASTM D3278

Autoignition temperature: Not selfigniting

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

Reactivity Hazard: None known

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

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x).

Special Fire Fighting Procedure: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Prevent product from entering drains. Clean spill area thoroughly. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.
Storage:	Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.
Additional Storage:	Not required under normal use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH/MSHA approved respirator whenever exposure limits exceeded.

Personal Protective Equipment

Eye protection:	Safety glasses
Skin and body protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place
Respiratory protection:	In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
Hand protection:	Protective gloves, Neoprene gloves
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

Exposure controls

Components	OSHA STEL	OSHA PEL	OSHA TWA	ACGIH STEL	ACGIH TWA
Titanium dioxide		15 mg/m ³ (total dust)	15 mg/m ³ (total dust)		10 mg/m ³ (total dust)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	White
Odor:	Nearly odorless
Physical state:	Liquid
pH:	8.0 - 10.0
Solubility:	Water insoluble
Density:	1.8 g/cm ³
Bulk density:	15.4 lbs/gal
Flash Point:	230 °F / 110 °C
Solvent content:	
Percent Volatile:	< 5 %
Water content:	0.0 %

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions
Conditions to avoid:	Heat, flames and sparks
Materials to avoid:	Oxidizing agents
Hazardous decomposition products:	No decomposition if stored normally
Possibility of Hazardous Reactions:	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components	LC50/inhalation/4h/Rat	LD50/Dermal/Rat	LD50/Oral/Rat
Titanium dioxide	>100 µg/kg	>10 g/m ³	>24 g/kg
Isotridecylalcohol, ethoxylated, phosphated, compd. with N,N-dimethylcyclohexanamine	No data available	No data available	> 2500 mg/kg (rat; OECD 423)

Local effects

Skin irritation:	May cause skin irritation and/or dermatitis.
Eye irritation:	Contact with eyes may cause irritation.
Inhalation:	May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic toxicity: Long-term chronic toxicity studies to evaluate the carcinogenic potential of this product have not been conducted; See table and/or data, below, of individual components

Components	NTP	IARC	OSHA
Titanium dioxide		Group 2B- Possibly Carcinogenic to Humans	Present

Specific effects

Carcinogenic effects: Titanium Dioxide showed an increased incidence of lung cancer in rats of both sexes if inhaled at high concentrations. In a re-evaluation, the IARC group has reclassified Titanium Dioxide (TiO₂) as an group 2B carcinogen - possible carcinogen to humans.

Target Organs: Lungs

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

Components	LC50/96hr/48hr/24hr	EC50/96hr/48hr/24hr	Bioaccumulation Concentration Factor	No Observable Effect Concentration/96hr/48hr/24hr (NOEC)
Titanium dioxide	>1000 mg/L (fathead minnows)	No data available	No data available	No data available
Isotridecylalcohol, ethoxylated, phosphated, compd. with N,N-dimethylcyclohexanamine	1 - 10 mg/L (rainbow trout; 96hrs)	No data available	No data available	No data available

Persistence and degradability: No data available

Environmental Fate and Pathways:

Mobility: No data available

Biodegradability: No data available

Bioaccumulative potential: No data available

Physical / Chemical: No data available

BOD/COD:

COD-value: No data available

BOD5-value: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with Local and National regulations.

RCRA Hazardous Waste:

RCRA: Not listed

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated

International Maritime Organization (IMO/IMDG):

Proper shipping name: Not regulated

Surface Shipments in Europe (ADR/RID):

Proper shipping name: Not regulated

15. REGULATORY INFORMATION

Heavy metals:

Heavy metals content (ppm): Not applicable

International Inventories

TSCA/ (USA)	Listed	EINECS/ (EU)	Not Listed
DSL/ (CANADA)	Not Listed	NDSL/ (CANADA)	Listed
ENCS/ (JAPAN)	Not Listed	IECSC/ (CHINA)	Listed
PICCS/ (PHILLIPINES)	Listed	KECL (KOREA)	Not Listed
AICS/ (AUSTRALIA)	Not Listed	HSNO/ New Zealand:	Listed

U.S. Regulations

TSCA Section 12(b) Export Notification

Isotridecylalcohol, ethoxylated, phosphated, compd. with N,N-dimethylcyclohexanamine (CAS # 164383-18-0) **Listed, Section 5**

SARA Title III:

Section 302 EHS: None **Section 311/312:** Chronic Health Hazard
Section 313: Not listed

California Prop. 65:

Not listed

Canada

WHMIS hazard class: D2A Possible, probable or known human carcinogen according to classifications by IARC or ACGIH.

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION**HMIS:**

Health: 1 *
 Flammability: 1
 Reactivity: 0

Previous Revision Date: Not applicable

Key/Legend:

N/A: Not applicable
 N/D: Not determined
 ppm: Parts per million
 X: Listed

Prepared by: Product Stewardship

The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. ELEMENTIS SPECIALTIES makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon. ELEMENTIS SPECIALTIES warrants only that its products conforms with their published specifications, and no other express warranty is made with regards thereof. We do not guarantee favorable results, and we assume no liability in connection with the use of the products. They are intended for use by persons having technical skill and knowledge, at their own discretion and risk.