



MATERIAL SAFETY DATA SHEET

Revision date: 14-Feb-2012

Supersedes: 18-Sep-2008

MSDS Number: 10701

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

Product name: TINT-AYD® CW 5499

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: For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis Specialties at: 1-609-443-2000 (USA) or +(49)-221-2923-2000 (EU)

Product_Stewardship@elementis.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:	Liquid
Color:	Yellow
Odor:	Ammoniacal

WARNING

May be harmful if swallowed
Irritating to eyes
May cause irritation of respiratory tract
May cause skin irritation and/or dermatitis
Vapours may cause drowsiness and dizziness

Potential health effects:

Eye contact:	Irritating to eyes. Signs and symptoms include burning, tearing, redness and swelling.
Skin contact:	May cause skin irritation and/or dermatitis.

Inhalation:	May cause irritation of respiratory tract. Vapors may cause drowsiness and dizziness.
Ingestion:	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Routes of exposure:	Inhalation, Skin, Ingestion
Target Organs:	Eyes, Central nervous system

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 %
Isopropanol	67-63-0	< 2.5%
Amines, tallow alkyl, ethoxylated	61791-26-2	< 2.5%

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:	Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
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:	> 210 °F / > 99 °C
Flash Point Method:	ASTM D3278
Autoignition temperature:	Not selfigniting
Explosive properties:	LEL: 2.6 Vol% UEL: 12.6 Vol%
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:** Wear self contained breathing apparatus for fire fighting if necessary

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). Clean contaminated surface thoroughly. Sweep up and shovel into suitable containers for disposal. 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:** DO NOT FREEZE. Keep container tightly closed. Store at room temperature in the original container.
- 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:** Tightly fitting safety goggles
- 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 case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit
- 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
Isopropanol	500 ppm 1225 mg/m ³	980 mg/m ³ 400 ppm	400 ppm 980 mg/m ³	400 ppm	200 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Yellow
Odor:	Ammoniacal
Physical state:	Liquid
Vapor pressure:	< 1.0 mm Hg
Vapor density:	2.62
Boiling point/range:	369 °F / 187 °C
Solubility:	Water Miscible
Density:	1.56 g/cm ³
Bulk density:	13.0 lbs/gal
Flash Point:	> 210 °F / > 99 °C
Ignition temperature:	371 (°C)
Explosive properties:	Not explosive
Explosion limits:	LEL: 2.6 Vol% UEL: 12.6 Vol%
Solvent content:	
Percent Volatile:	15 - 20 %
Water content:	~ 31 %
VOC content:	2.20 lbs/gal; 264 g/L
Evaporation rate:	< 1.0

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:	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components	LC50/inhalation/4h/Rat	LD50/Dermal/Rat	LD50/Oral/Rat
Amines, tallow alkyl, ethoxylated	No data available	> 10 g/kg (rat)	620 mg/kg
Isopropanol	72.6 mg/L	12.8 g/kg (rabbit)	5045 mg/kg

Local effects

Skin irritation:	May cause skin irritation and/or dermatitis.
Eye irritation:	Irritating to eyes.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	May be harmful if swallowed, avoid ingestion. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sensitization:	No sensitizing effects known.
Chronic toxicity:	No data is available on the product itself

Specific effects

Components	NTP	IARC	OSHA
Isopropanol		Group 3 - Unclassifiable as to Carcinogenicity to Humans	

Carcinogenic effects:	Isopropanol has been reviewed by IARC. There is inadequate evidence in humans for the carcinogenicity of isopropanol. There is inadequate evidence for the carcinogenicity of isopropanol in experimental animals. Therefore, the working group concluded that isopropanol is not classifiable as to its carcinogenicity to humans (Group 3).
Target Organs:	Eyes, Central nervous system

12. ECOLOGICAL INFORMATION

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Aquatic toxicity:

Components	LC50/96hr/48hr/24hr	EC50/96hr/48hr/24hr	Bioaccumulation Concentration Factor	No Observable Effect Concentration/96hr/48hr/24hr (NOEC)
Amines, tallow alkyl, ethoxylated	1 - 10 mg/L (Daphnia magna)	No data available	No data available	No data available
Isopropanol	6.55 - 10.4 g/L (fathead minnows)	13299 mg/L (Daphnia magna; 48hr) 1000 mg/L (S. subspicatus; 96hr)	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

14. TRANSPORT INFORMATION

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)	Listed
DSL/ (CANADA)	Listed	NDSL/ (CANADA)	Not applicable
ENCS/ (JAPAN)	Listed	IECSC/ (CHINA)	Listed
PICCS/ (PHILLIPINES)	Listed	KECL (KOREA)	Listed
AICS/ (AUSTRALIA)	Listed	HSNO/ New Zealand:	Listed
NECSI/ (TAIWAN)	Not Listed		

U.S. Regulations

TSCA Section 12(b) Export Notification

This product does not contain chemicals that are required to be notified under the TSCA 12(b) Export Notification.

SARA Title III:

Section 302 EHS:	None	Section 311/312:	Acute Health Hazard
Section 313:	This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):	Isopropanol (CAS # 67-63-0)	<i>Listed</i>

California Prop. 65:

Not listed

Canada**WHMIS hazard class:**

Contains Propylene glycol @ ~ 8%

D2B Skin or Eye irritation

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

This Material Safety Data Sheet 1 - 15
contains changes from the
previous version in Sections:

Previous Revision Date: 18-Sep-2008

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.

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