

1. Identification of the substance / preparation and of the company

Product name: Accent and Accent Plus for E4D
 Article number: 10785801, 10785802, 10787501 and 10787502
 Kind of product: pigment suspension for short-while matting of dental surfaces
 Company: D4D Technologies, L.L.C.
 Address, Telephone: 650 International Parkway phone 972.234.3880
 Richardson, TX 75081 fax 972.234.3557

2. Composition / information on ingredients (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

substances with hazardous potential	CAS-No.	Mass. %	Hazard-symbol	R-phrase	OSHA Exposure Limits (TLV as ppm)
Ethanol	64-15-5	70 – 90	F	11	500 ppm
petrol ether (Ph. Eur.) as denaturing agent (< 0.1% benzene; <5% toluene)	64742-49-0	< 5	F, Xn	11, 48/20	Not available

3. Hazard identification

EMERGENCY OVERVIEW - WARNING! FLAMMABLE LIQUID AND VAPOR.
 HARMFUL OR FATAL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN. POISON DANGER!

HMIS/NFPA Rating:
 Health - 1, Flammability - 3, Reactivity - 0 Personal Protection Index - G
 NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

Potential Health Effects:

- Inhalation:** May cause depression of central nervous system resulting in nausea, weakness, drowsiness and possible blindness.
- Eye Contact:** May cause transient irritation.
- Skin Contact:** May cause irritation and/or dermatitis. Material may be absorbed through the skin resulting in effects similar to ingestion or inhalation.
- Ingestion:** May cause intoxication, Central nervous system depression, nausea, and dizziness. May damage liver, kidneys and nervous system. May cause blindness and/or death.
- Target Organs:** Liver, kidneys and central nervous system.
- Medical Conditions Aggravated by Exposure:**
The single lethal dose for a human adult = about 833 mls (28 ounces).
 Individuals with preexisting diseases of the retina (eyes) or liver may have increased susceptibility to toxicity at lower levels of successive exposure (repeated exposures).
- Chronic:** Liquid and vapor can penetrate skin and mucous membranes. May cause chronic liver, kidney or central nervous system disorders.

CARCINOGENICITY INFORMATION: No known cancer hazards.

4. First-aid measure

- Inhalation:** Remove patient to fresh air. If symptoms of intoxication or visual problems are apparent, get immediate medical aid.
- Eye Contact:** Immediately flush with clean water for at least 15 minutes. Get medical aid.
- Skin Contact:** Remove contaminated clothing and shoes. Flush affected area with copious amounts of water. If irritation or other symptoms are present, get immediate medical assistance.
- Ingestion:** **Do Not Induce Vomiting.** Give one or two glasses of water and get immediate medical aid.
- Notes to Physician:** Treat for CNS depression and possible renal failure.

5. Fire-fighting measure

Suitable extinguishing media: all means of extinguishing are acceptable
In case of fire: cool endangered containers with water
Special hazards: vapours are heavier than air

6 Accidental release measures (for Large amounts)

Personal precautions: Provide sufficient ventilation; do not allow entering drains (danger of explosion).
Keep away from sources of ignition - no smoking.
Environmental precautions: Keep away from drains, waters and soil
Methods for cleaning up: Dilute with water or take up with an absorbent material

7. Handling and storage

Handling: Provide good ventilation or exhaustion; use protective goggles.
Keep out of reach of children.
Industrial hygiene: Usual hygienic measures for dental practice.
When using, do not eat, drink or smoke.
Protection against fire/explosion: Keep away from sources of ignition.
Storage: Keep container tightly closed. Do not expose to direct sunshine

8. Exposure control / personal protection

Ingredients with limiting values: ethanol 500 ppm = 960 mg/m³ (TLV)
petroleum ether
Industrial hygiene: Do not inhale vapours. Avoid contact with the eyes.
Respiration protection: Yes, if the limit values like TLV are exceeded.
Hand protection: suitable protective gloves
Eye protection: protective goggles

9. Physical and chemical properties

Form: liquid
Colour: white
Odour: alcoholic
Boiling temperature: ca. 80 °C
Decomposition temperature: n.a.
Flash point: 12 °C
Ignition point: 425 °C
Explosion limits: 3.5 - 15 vol%
Density: ca. 1,0 g / cm³ at 20 °C
soluble in: alcohol, water
Solubility in water: completely miscible
pH value: n.a.
Viscosity: n.a.

10. Stability and reactivity

Thermal stability: stable at normal temperatures and storage conditions;
avoid sources of heat or open flame;
distills without decomposition at atmospheric pressure
Hazardous decomposition products: n.a.
Hazardous reactions: no polymerization

11. Toxicological information

Do not breathe vapour. Signs and symptoms of excessive exposure may be narcotic effects.
LD50 (oral, rat), alcohol: 7060 mg/kg (literature value of main component)
LD50 (inhal., rat), alcohol: 38 mg / 1 / 10,0 h (literature value of main component)
Eyes: Irritating
Inhalation: Vapours may cause narcotic effects by alcohol

12. Ecological information

Biodegradability: ethanol: min. 94 % (DOC; modif. OECD screening test)
pigments not degradable, no reactions

Aquatic toxicity:	Alcohol:
Toxicity to fish	LC0 > 1000 mg/l (48 h)
Toxicity to daphnia	EC50 > 1000 mg/l (24 h)

13. Disposal Considerations

RCRA Hazardous Waste if Discarded? Yes. **If so, RCRA ID number:** D001, Ignitable waste.

WASTE DISPOSAL: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

EU waste key 16 05 05

14. Transport information

DOT (USA)	<u>Containers Smaller than 1-gallon (4-liters)</u>
ORM-D	US DOT
	Proper Shipping Name: Consumer Commodity (not more than 4-liters)
	Hazard Class: ORM-D Class 9
	Identification Number: ID8000
	Marine Pollutant: None
	<u>International (AIR, Water, I.M.O.)</u>
	Proper Shipping Name: Consumer commodity (Not more than 1,000-ml)
	Hazard Class: ORM-D Class 9
	Identification Number: ID8000
	<u>US DOT and International (Water, I.M.O.)</u>
BULK Shipments	Proper Shipping Name: Flammable liquids, n.o.s. (ETHANOL, denaturated)
	Hazard Class: 3
	Identification Number: UN1170
	Packing Group: III
	IATA Class(AIR): 3
	IMDG Class(water): 3.2
	Information reported for product/size: 350LB +



15 Regulatory information

FEDERAL REGULATORY STATUS: OSHA Classification: Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Chemical Weapons Convention: No **TSCA 12(b):** No **TSCA 8(d):** No **CDTA:** No

SARA 311/312: Acute: YES Chronic: YES Fire: YES Pressure: No
Reactivity: No (Mixture / Liquid)

CERCLA Reportable Quantity: No Data

Australian Hazchem Code: 2 [S] 2

Poison Schedule: None allocated.

RCRA INFORMATION:

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, and is listed in 40 CFR 261.33.

CLEAN AIR ACT: Contains ethanol which is a Section 111 material.

SECTION 313 (Toxic chemical release reporting) 40 CFR 372: The following chemicals must be reported under SARA 313: Not applicable

CERCLA INFORMATION (40 CFR 302.4)

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304

CHEMICAL CONTROL LAW STATUS: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

NEW JERSEY RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST:

This product contains the following components subject to reporting requirements: Ethanol.

PENNSYLVANIA HAZARDOUS SUBSTANCE LIST

This product contains the following components subject to reporting requirements: Ethanol

MASSACHUSETTS SUBSTANCE LIST

This product contains the following components subject to reporting requirements: Ethanol

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (Proposition 65):

This product contains the following components subject to reporting requirements: NONE

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) listed material.

This product contains the following components subject to reporting requirements: Ethanol

WHMIS: 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.



This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

The product is a medical device according to the EC-directive 93/42/EEC.

Labelling acc. to Annex I of Directive 67/548/EEC:

Hazard symbol	F	UN-Number:	1170
R-phrases:	11	contains flammable ingredients (ethanol)	
S-phrases:	7	keep container tightly closed	
	16	Keep away from sources of ignition - no smoking.	

Label / outer packaging: Keep away from sources of ignition – no smoking. Keep out of the reach of children.

16. Other information

Label Hazard Warning: (Label Hazard Warnings cover Bulk shipments, Section 14)

DANGER! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CHRONIC EXPOSURE CAN CAUSE ADVERSE LIVER, KIDNEY.

Label Precautions:

Keep away from heat, sparks and flame. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

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Part Number: 10785801, 10785802 10787501, 10787502

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ADDITIONAL INFORMATION:

This MSDS is a translation from the original German version. It has been checked and updated to comply with US, Australian and Canadian requirements.

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998).

The details contained herein are based on the msds of our components and our present state of knowledge and experience. They are to characterize our product with regard to any possible safety requirements. We do, however, pass them on without any warranty or property assurances.

End of MSDS