



EU Safety Data Sheet

MSDS Number: 66 Rev. C	Revision Date: July 29, 2013
Product Name: AllWrite™ A5000	Page 1 of 8

Printed: July 31, 2013

Section 1: Identification of the Substance/Preparation and the Company/Undertaking

1.1 Product Identifier: AllWrite™ A5000

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
Ink Jet Printing

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Trident an ITW Company.
1114 Federal Road
Brookfield, CT 06804-1140

Telephone: 1- 203-740-9333

Fax: 1 - 203-740-3528

Email: <mailto:hq@trident-itw.com>

1.4 Emergency Telephone Number

Emergency: Call CHEMTREC United States 1-800-424-9300/ International 1-703-527-887(collect)

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture

Product Classification:

EU Classification (1999/45/EC): Irritant (Xi) R10, R36, R67

GHS Classification: Flammable Liquid Category 3, Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure Category 3

GHS Labeling:

WARNING!



Contains Diacetone Alcohol

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

P210 Keep away from heat, sparks, and open flames. No smoking.

P233 Keep container tightly closed.

P261 Avoid breathing mist, vapours, or spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors in a well-ventilated area.

P280 Wear protective gloves and eye protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove a person to fresh air

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	<p>and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER or doctor if you feel unwell.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice or attention.</p> <p>P370 + P378 In case of fire: Use dry chemical, carbon dioxide, or alcohol foam to extinguish.</p> <p>P405 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/container in accordance with local and national regulations.</p>
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2.3 Other Hazards: None known

Section 3: Composition Information

3.2 Mixtures

Components	CAS Number	EINECS Number	Weight %	EU Classification 67/548/EEC	GHS Classification
Propylene Glycol Methyl Ether (PGME)	107-98-2	203-539-1	20-40	R10, R67	Flamm Liq 3 (H226), STOT SE 3 (H336)
Diacetone Alcohol	123-42-2	204-626-7	40-60	Xi R36	Eye Irrit 2 (H319)
Black Pigment	Proprietary	Proprietary	10-15	Not classified	Not classified
Cyclohexanone oxime	100-64-1	202-874-0	<5	Xn R22	Acute Tox 4 (H302)

** trivalent chromium concentration in this complex is 6.6%.

Refer to section 16 for the full text of the GHS and EU classification and risk phrases.

Section 4: Emergency First Aid Measures

4.1 Descriptions of First Aid Measures

INGESTION:	Swallowing less than an ounce will not cause significant harm and does not require any emergency treatment. Nothing should be administered orally to a victim who is losing consciousness, unconscious or convulsing. Do not induce vomiting. For larger amounts, give one or two glasses of water to drink to a conscious patient. Seek medical advice.
INHALATION:	If exposed to excessive levels of vapor or mist, remove to fresh air. For difficulty breathing, give oxygen. Seek medical attention if cough or other symptoms develop.
EYE CONTACT:	Immediately flush eyes with plenty of cool water for 15 minutes retracting the lids. After initial flush, remove contact lenses and continue flushing. Seek medical advice if irritation persists.
SKIN CONTACT:	Wash with soap and water. Remove and launder contaminated clothing.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Causes serious eye irritation. May cause skin irritation. Inhalation of vapours may cause drowsiness or dizziness.

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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Immediate medical attention may be required for eye contact.

Section 5: Fire Fighting Measures

5.1 EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, or alcohol foam.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

UNUSUAL FIRE & EXPLOSION HAZARDS: Flammable liquid and vapour. Vapours are heavier than air and will collect in low areas. Vapours may travel along surfaces to remote ignition sources and flash back. Closed containers may rupture (due to build-up of pressure) when exposed to extreme heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

5.3 ADVICE FOR FIRE-FIGHTERS:

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full turn-out gear. Dike liquids to prevent run-off to sewers and waterways. Collect for disposal.

Section 6: Accidental Release Measures

6.1 PRECAUTIONS FOR SAFE HANDLING: Wear appropriate protective clothing and equipment. Limit access to the area. Eliminate all ignition sources and ventilate the area.

6.2 ENVIRONMENTAL PRECAUTIONS: Ensure disposal is in compliance with local, state and federal requirements.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
Dike spill. Absorb with inert material and collect for disposal. Surfaces may be slippery so use granular material to absorb. Flush area with water, ensuring that none escapes into waterways.

6.4 REFERENCES TO OTHER SECTIONS: Refer to Section 8 for Personal Protective Equipment, and Section 13 for proper disposal information.

Section 7: Handling And Storage

7.2 PRECAUTIONS FOR SAFET HANDLING: Avoid contact with skin and eyes. Use only with adequate ventilation. Keep product away from heat, flames and all other sources of ignition.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep containers closed. Store in a cool [40-120°F (4-49° C)], dry place away from heat and light. Keep from freezing. Keep away from children.

7.3 SPECIFIC END USES: Use for ink jet printers.

Section 8: Exposure Controls & Personal Protection

8.1 CONTROL PARAMETERS:

Components	Exposure Limit / Source
Propylene Glycol Methyl Ether	100 ppm ACGIH TLV-TWA, 150 ppm TLV-STEL

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(PGME)	100 ppm TWA DFG MAK 100 ppm UK-TWA, 150 ppm UK-STEL skin 100 ppm EU-TWA, 150 ppm EU-STEL skin
Diacetone Alcohol	50 ppm OSHA PEL-TWA 50 ppm ACGIH TLV-TWA 20 ppm TWA, 40 ppm STEL DFG MAK 50 ppm UK-TWA, 75 ppm UK-STEL
Black Pigment (as Cr III)	0.5 mg/m3 OSHA PEL-TWA 0.5 mg/m3 ACGIH TLV-TWA 2 mg/m3 (inhalable) TWA DFG MAK 0.5 mg/m3 UK-TWA
Cyclohexanone oxime	None Established

8.2 EXPOSURE CONTROLS:

ENGINEERING CONTROLS (ventilation): Use local exhaust when application produces vapors or mists.

PERSONAL PROTECTION:

EYE PROTECTION: Wear shielded safety glasses. An eye wash should also be available nearby.

SKIN PROTECTION: Wear gloves to protect skin.

RESPIRATORY: Not required in well-ventilated area.

Section 9: Physical & Chemical Properties

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Black liquid.

ODOR: Mild

FLAMMABLE LIMITS: None established.

ODOR THRESHOLD: Not established

FLASHPOINT AND METHOD: 111.2 °F (44 °C) CC

AUTOIGNITION TEMPERATURE: Not established

ASTM D93-08

VAPOR PRESSURE: 10.9 mmHg @25 °C (PGME)

EVAPORATION RATE (n-butyl acetate = 1): <1.0

SPECIFIC GRAVITY: Not established

PERCENT VOLATILES: >70% est.

SOLUBILITY: Partially soluble

BOILING POINT: 114-118 °C (237.2-244.4 °F)

pH= Not available

VAPOR DENSITY: -5.5 (est.)

MELTING/FREEZING POINT: Not established

VISCOSITY: Not established

DECOMPOSITION TEMPERATURE: Not established

EXPLOSIVE PROPERTIES: Not explosive

RELATIVE DENSITY: 1.09 approx.

OXIDIZING PROPERTIES: Not an oxidizer

MOLECULAR FORMULA: Mixture

MOLECULAR WEIGHT: Mixture

FLAMMABILITY (SOLID, GAS): Not applicable

OCTANOL/WATER PARTITION COEFFICIENT: Not established

Section 10: Stability & Reactivity

10.1 REACTIVITY: Not reactive

10.2 CHEMICAL STABILITY: Stable

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur

10.4 CONDITIONS TO AVOID: Heat, sparks, flames and all other sources of ignition.

10.5 INCOMPATIBLE MATERIALS: Avoid acids, strong oxidizing agents and strong alkalis.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

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Section 11: Toxicological Information

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Potential Health Affects:

EYE CONTACT: May cause serious eye irritation. May cause reversible eye damage.

SKIN CONTACT: May cause skin irritation on prolonged contact.

INGESTION: May cause headache, drowsiness, nausea, and vomiting. Swallowing large amounts may cause injury.

INHALATION: Vapours may cause headache, dizziness, drowsiness, and other nervous system effects.

ACUTE TOXICITY VALUES:

COMPONENTS: Propylene Glycol Methyl Ether (PGME): Oral rat LD50 - 5660 mg/kg; Inhalation rat LC50 - 10,000 ppm/5 hr; skin rabbit LD50 - 13 gm/kg

Diacetone Alcohol: Oral rat LD50 4,000 mg/kg; skin rabbit LD50 13,000 mg/kg

Black Pigment: Oral rat LD50 >5000 mg/kg

Cyclohexanone oxime: Oral rat LD50 >580 mg/kg

Calculated ATE_{mix}: Oral rat LD50 11,627 mg/kg

SKIN CORROSION/IRRITATION: Product is expected to be irritating with prolonged contact.

EYE DAMAGE/IRRITATION: Product causes serious eye irritation.

RESPIRATORY IRRITATION: Product is expected to cause respiratory irritation.

RESPIRATORY SENSITIZATION: Not expected to cause sensitization.

SKIN SENSITIZATION: Not expected to cause sensitization.

GERM CELL MUTAGENICITY: This ink has not been tested for mutagenic effects.

CARCINOGENICITY: This product contains the following ingredients that are listed as carcinogens:

OSHA: None Listed IARC: None Listed NTP: None Listed. EU Directive: None Listed

REPRODUCTIVE TOXICITY: This ink has not been tested for reproductive effects.

SPECIFIC TARGET ORGAN EFFECTS: This ink has not been tested for chronic effects.

COMPONENTS: Chronic absorption of PGME may cause kidney or liver damage based on studies with laboratory animals. Trivalent chromium compounds usually have very low orders of toxicity, are not carcinogenic, and are not very harmful to the environment.

Section 12: Ecological Information

12.1 TOXICITY: The ink is classified as harmful to aquatic organisms with possible long-term effects.

COMPONENTS Propylene Glycol Methyl Ether (PGME): LC50 Fathead minnow - 20800 mg/mL; LC50 Daphnia Magna - 23300 mg/L
Diacetone Alcohol: LC50 Fathead minnow 420 mg/L/96 hr. LD50 Daphnia Magna 9000 mg/L/24 hr

12.2 PERSISTENCE AND DEGRADABILITY:

CHEMICAL FATE INFORMATION: No data available for the ink

COMPONENTS: Propylene Glycol Methyl Ether (PGME): Readily biodegradable - 90% after 90 days

Diacetone Alcohol: Readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL: No data available

12.4 MOBILITY IN SOIL: No data available

12.5 RESULTS OF PBT AND VPVB ASSESSMENT: No data available

12.6 OTHER ADVERSE EFFECTS: None known

Section 13: Disposal Considerations

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13.1 WASTE TREATMENT METHODS:

Dispose of according to appropriate local, regional and national laws or regulations. Do not reuse empty containers

Section 14: Transport Information:

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	NONE	Excepted from Hazmat in non-bulk containers (49CFR 173.150 (f))	NONE	NONE	NOT APPLICABLE
Canadian TDG	NONE	Excepted from Hazmat in non-bulk containers (TDG 1.34)	NONE	NONE	NOT APPLICABLE
EU ADR/RID	UN1210	Printing Ink	3	III	NOT APPLICABLE
IMDG	UN1210	Printing Ink	3	III	NOT APPLICABLE
IATA/ICAO	UN1210	Printing Ink	3	III	NOT APPLICABLE

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15: Regulatory Information

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

UNITED STATES

This product does not contain any ozone depleting substances (ODS), nor were any ozone depleting substances used in the manufacture of this product.

CONEG: Raw materials used to make our inks do not contain mercury, lead, cadmium or hexavalent chromium and none are added during manufacture.

TSCA [Toxic Substances Control Act]: All components are listed in the TSCA inventory.

OSHA Hazard Classification: Acute health hazard.

SARA [Superfund Amendments and Reauthorization Act] 1986 Title III

40CFR355 - Chemicals present requiring emergency planning based on Threshold Planning Quantities (TPQ) and release reporting based on Reportable Quantities (RQ)----
-NONE

40CFR372 - Chemicals present that require submission of annual reports of release of toxic chemicals that appear in this section of SARA Title III.

-- trivalent chromium compounds 10-15%

CAAA - This ink contains the following ingredients considered Hazardous Air Pollutants under the Clean Air Act of 1990

Solvent black 29 trivalent chromium complex 5-10%

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STATE REGULATIONS:

California proposition 65:- Components contained in this ink known to cause cancer, birth defects, or reproductive harm by the State of California: None known

California SCMQAD: As defined by this statute, this ink is estimated to contain <80% VOCs.

Massachusetts 105CMR670 Right to Know (MSL): Propylene glycol methyl ether, Diacetone alcohol, Chromium compounds

Pennsylvania Right to Know Hazardous Substance list: Components of this ink which could require reporting are:

Propylene glycol methyl ether, Diacetone alcohol, Chromium compounds

CANADA

DSL/nDSL: All components are listed.

WHMIS classification: B3, D2B

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

EUROPEAN UNION

EINECS Status: All components are in compliance with European Inventory Requirements.

Section 16: Other Information.

REVISION SUMMARY:

April 2010: New SDS

Revised August 2010: Updated Section 14: Transport UN Number.

Revised July 2013: Updated format to conform to REACH requirements.

HAZARD RATINGS: NFPA Health: 1 Flammability: 2 Reactivity: 0

GHS Classification and Phrases from Section 3

Flamm Liq 3 Flammable Liquid Category 3

Eye Dam 1 Eye Damage Category 1

Acute Tox 4 Acute Toxicity Category 4

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EU Classification and Risk Phrases from Section 2 and 3

Xn Harmful

Xi Irritant

R10 Flammable

R22 Harmful if swallowed.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

The information contained and recommended in this document is based on data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to that information.

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Contact: Trident an ITW company

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