

**DuPont™ Cyrel® Cylosol Plate Washout Solution**

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Cyrel® Cylosol Plate Washout Solution
Tradename/Synonym : Cylosol Washout Solution

Product Use : Manufacture of printing plates, Processing aid, not otherwise listed

Restrictions on use : Consumer use

Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : 1-302-774-1000
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Flammable liquids	Category 4
Acute toxicity (Inhalation)	Category 4
Skin irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitisation	Category 1
Aspiration hazard	Category 1

DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Label content

Pictogram

:



Signal word

: Danger

Hazardous warnings

: Combustible liquid.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.


DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Hazardous prevention measures

: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/ eye protection/ face protection.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call a POISON CENTER or doctor/ physician if you feel unwell.
 Do NOT induce vomiting.
 If skin irritation or rash occurs: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 50 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
2-Ethylhexyl acetate	103-09-3	40 - 60 %
Benzyl alcohol	100-51-6	15 - 30 %


DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Naphtha (petroleum), hydrotreated heavy		20 - 30 %
---	--	-----------

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice	: No applicable data available.
Inhalation	: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact	: Wash off with plenty of water. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
Eye contact	: Immediately flush eyes for at least 15 minutes. Get medical attention.
Ingestion	: Do NOT induce vomiting. Call a physician or poison control centre immediately.
Most important symptoms/effects, acute and delayed	: Aspiration may cause pulmonary oedema and pneumonitis.
Protection of first-aiders	: No applicable data available.
Notes to physician	: No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: No applicable data available.
Specific hazards	: Static charges can accumulate and lead to a spark capable of starting a fire.
Special protective equipment for firefighters	: Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

**DuPont™ Cyrel® Cylosol Plate Washout Solution**

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Further information : Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Spill Cleanup : Contain spill. Soak up with inert absorbent material. Collect and contain contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated surface thoroughly.

Accidental Release Measures : Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid breathing vapours or mist. Keep away from heat and flame. Do not use in areas without adequate ventilation. Provide adequate ventilation. When using do not eat, drink or smoke. Do not breathe vapours or spray mist. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes. Keep away from food and drink.

Handling (Physical Aspects) : Keep away from heat and sources of ignition. Avoid formation of aerosol.

Dust explosion class : No applicable data available.

Storage : Store at room temperature in the original container. Keep away from sources of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep container closed when not in use. Do not reuse empty container.

**DuPont™ Cyrel® Cylosol Plate Washout Solution**

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Stable under normal conditions.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : Material: Nitrile rubber
Break through time: 60 min
Permeation rate: 480 min
Glove thickness: 0.4 mm
Additional protection: Gloves must be inspected prior to use., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

Eye protection : Face-shield Chemical resistant goggles must be worn.

Skin and body protection : Impervious clothing

Exposure Guidelines

Exposure Limit Values

2-Ethylhexyl acetate

No applicable data available.

Benzyl alcohol

AEL *

(DUPONT)

10 ppm

8 & 12 hr. TWA

Naphtha (petroleum), hydrotreated heavy

No applicable data available.

**DuPont™ Cyrel® Cylosol Plate Washout Solution**

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid
Form : liquid
Color : colourless

Odor : sweet

Odor threshold : No applicable data available.

pH : Not applicable

Melting point/range : No applicable data available.

Boiling point/boiling range : Boiling point/boiling range
188 - 210 °C (370 - 410 °F) at 1,013 hPa

Flash point : >62 °C
closed cup

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : 7.9 vol%

Lower explosion limit : 2.3 vol%

Vapor pressure : < 1 hPa

Vapour density : No applicable data available.

Specific gravity (Relative density) : 0.877

Water solubility : negligible

Solubility(ies) : No applicable data available.

**DuPont™ Cyrel® Cylosol Plate Washout Solution**

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Partition coefficient: n-octanol/water	:	No applicable data available.
Auto-ignition temperature	:	No applicable data available.
Ignition temperature	:	no data available
Decomposition temperature	:	No applicable data available.
Viscosity, kinematic	:	No applicable data available.
Viscosity, dynamic	:	No applicable data available.
% Volatile	:	100 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored normally. Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	:	Polymerization will not occur.
Conditions to avoid	:	None reasonably foreseeable.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Benzyl alcohol is slowly oxidized to benzaldehyde in the presence of air.

SECTION 11. TOXICOLOGICAL INFORMATION

2-Ethylhexyl acetate		
Dermal LD50	:	> 5,000 mg/kg , Rabbit
Oral LD50	:	5,140 mg/kg , Rat
Skin irritation	:	Severe skin irritation, Rabbit
Eye irritation	:	No eye irritation, Rabbit
Skin sensitization	:	Does not cause skin sensitisation., human


DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

- Repeated dose toxicity : Oral
Rat
-
vapour
NOAEL: 25 mg/kg
LOAEL: 50 mg/kg Method: No information available.
Gastrointestinal effects, Liver effects, Information given is based on data obtained from similar substances.
- Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
Information given is based on data obtained from similar substances.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Animal testing did not show any mutagenic effects.
Information given is based on data obtained from similar substances.
- Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Benzyl alcohol

- Inhalation 4 h ALC - Approximate Lethal Concentration : > 1.105 mg/l , Rat
Respiratory tract irritation
- Dermal LD50 : 2,000 mg/kg , Rabbit
- Oral LD50 : 1,230 mg/kg , Rat
- Oral LD50 : 1,040 mg/kg , Rabbit
Breathing difficulties
- Skin irritation : Slight or no skin irritation, Rabbit
- Eye irritation : Irritating to eyes., Rabbit
Moderate eye irritation
- Skin sensitization : Positive in human patch test., human
- Repeated dose toxicity : Oral
Rat
-
No toxicologically significant effects were found.



DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

- Carcinogenicity** : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
- Mutagenicity** : Animal testing did not show any mutagenic effects.
Evidence suggests this substance does not cause genetic damage in animals.
Did not cause genetic damage in cultured bacterial cells.
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.
- Reproductive toxicity** : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
- Teratogenicity** : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Naphtha (petroleum), hydrotreated heavy

- Inhalation 4 h LC50** : > 5.61 mg/l , Rat
- Dermal LD50** : > 2,000 mg/kg , Rabbit
- Oral LD50** : > 5,000 mg/kg , Rat
Central nervous system effects
Gastrointestinal effects
- Skin irritation** : Severe skin irritation, Rabbit
- Eye irritation** : No eye irritation, Rabbit
- Skin sensitization** : Does not cause skin sensitisation., Guinea pig
- Repeated dose toxicity** : Inhalation
Rat
-
vapour
NOAEL: > 20 mg/l Method: OECD Test Guideline 413
No toxicologically significant effects were found.
- Carcinogenicity** : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity** : Animal testing did not show any mutagenic effects.



DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Did not cause genetic damage in cultured bacterial cells.
Did not cause genetic damage in cultured mammalian cells.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

2-Ethylhexyl acetate

- : Aquatic toxicity is unlikely due to low solubility.
- : Aquatic toxicity is unlikely due to low solubility.
- : Aquatic toxicity is unlikely due to low solubility.

Benzyl alcohol

- 96 h LC50 : *Oryzias latipes* (Orange-red killifish) > 100 mg/l
- 96 h LC50 : *Pimephales promelas* (fathead minnow) 460 mg/l
- 72 h EC50 : *Pseudokirchneriella subcapitata* (green algae) 700 mg/l
- 96 h EC50 : *Scenedesmus quadricauda* (Green algae) > 360 mg/l
- 48 h EC50 : *Daphnia* (water flea) 230 mg/l
- 14 d : NOEC *Oryzias latipes* (Orange-red killifish) 5.1 mg/l
- 21 d : NOEC *Daphnia magna* (Water flea) 51 mg/l



DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Naphtha (petroleum), hydrotreated heavy

96 h LC50 : Pimephales promelas (fathead minnow) 8.2 mg/l (calculated)
Information given is based on data obtained from similar substances.

72 h ErC50 : Selenastrum capricornutum (green algae) 3.1 mg/l OECD Test
Guideline 201

72 h NOEC : Selenastrum capricornutum (green algae) 0.5 mg/l OECD Test
Guideline 201

48 h EC50 : Daphnia magna (Water flea) 4.5 mg/l OECD Test Guideline 202

21 d : NOEC Fish (unspecified species) 2.6 mg/l OECD Test Guideline 204

21 d : NOEC Daphnia magna (Water flea) 2.6 mg/l OECD Test Guideline
211

Environmental Fate

2-Ethylhexyl acetate

Biodegradability : rapidly biodegradable OECD Test Guideline 301
Readily biodegradable

Benzyl alcohol

Biodegradability : Readily biodegradable

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : If recycling is not practicable, dispose of in compliance with local regulations.
Never place unused product down any indoor or out door drain.

Waste disposal methods - Container : Do not reuse empty container.
Contaminated/not cleaned containers should be treated/handled like product waste.
Dispose of container properly.
Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

Contaminated packaging : No applicable data available.

**DuPont™ Cyrel® Cylosol Plate Washout Solution**

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

- | | |
|--|--|
| TSCA (US) Status | : On the inventory, or in compliance with the inventory |
| SARA 313 Regulated Chemical(s) | : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |
| PA Right to Know Regulated Chemical(s) | : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):
Aliphatic alcohol, Aliphatic Esters
This product contains proprietary ingredient(s). |
| California Prop. 65 | : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known |

SECTION 16. OTHER INFORMATION

- | | |
|----------------------|--|
| Restrictions for use | : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications. |
|----------------------|--|

The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company. Before use read DuPont's safety information. For further information contact the local DuPont office or DuPont's nominated distributors.



DuPont™ Cyrel® Cylosol Plate Washout Solution

Version 2.0

Revision Date 06/08/2015

Ref. 130000030584

Revision Date : 06/08/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.