



**RelyOn® Multipurpose Disinfectant Cleaner**

Version 2.0

Revision Date 05/27/2015

Ref. 130000093735

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 : RelyOn® Multipurpose Disinfectant Cleaner  
 Product Use : Disinfectant, Cleaning agent, For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses  
 Manufacturer/Supplier : DuPont  
 1007 Market Street  
 Wilmington, DE 19898  
 United States of America

Product Information : 1-800-441-7515 (outside the U.S. 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**

Acute toxicity (Inhalation)	Category 4
Skin irritation	Category 2
Serious eye damage/eye irritation	Category 1

**Label content**

Pictogram :




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Signal word : Danger

Hazardous warnings : Causes skin irritation.  
Causes serious eye damage.  
Harmful if inhaled.

Hazardous prevention measures : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection/ face protection.  
Wear protective gloves.  
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.  
Immediately call a POISON CENTER/doctor.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

**Other hazards**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 49.7935 %

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.		
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	40 - 50 %
Sodium dodecylbenzenesulfonate	25155-30-0	10 - 20 %


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Malic acid	6915-15-7	10 - 20 %
Sulfamic acid	5329-14-6	5 - 10 %
Dipotassium peroxodisulphate	7727-21-1	1 - 5 %
Potassium hydrogensulphate	7646-93-7	1 - 5 %
Dipotassium disulfate	7790-62-7	1 - 5 %
Terpenes And Terpenoids, Sweet Orange-Oil	68647-72-3	0.1 - 1 %

**SECTION 4. FIRST AID MEASURES**

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : Move to fresh air. Consult a physician if necessary.
- Skin contact : In case of contact, immediately flush skin with plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Consult a physician if necessary.
- Eye contact : Rinse immediately with plenty of water and seek medical advice.
- Ingestion : Call a poison control center or doctor for treatment advice. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed : No applicable data available.



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Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : No applicable data available.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray, Dry powder, Alcohol-resistant foam

Unsuitable extinguishing media : Carbon dioxide (CO2)

Specific hazards : In fire conditions, toxic decomposition products may be formed. (see also section 10)

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment.

Further information : Evacuate personnel to safe areas. Standard procedure for chemical fires.

**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) : Wear personal protective equipment. Avoid contact with skin and eyes.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

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

**SECTION 7. HANDLING AND STORAGE**



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- Handling (Personnel) : Avoid contact with skin, eyes and clothing. Do not get on clothing. Wash off with plenty of water. Wash clothing after use. Do not breathe dust. Avoid dust formation in confined areas. For personal protection see section 8. General industrial hygiene practice.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.  
Keep away from: Combustible material  
No decomposition if stored and applied as directed.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Provide local exhaust ventilation when handling material in bulk. Ensure adequate ventilation.
- Personal protective equipment
  - Respiratory protection : Provide adequate ventilation. Wear NIOSH approved respiratory protection as appropriate.
  - Hand protection : Material: Impervious gloves  
Additional protection: No particular glove type is recommended, but nitrile may used.
  - Eye protection : Safety glasses with side-shields
  - Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines  
Exposure Limit Values

Pentapotassium bis(peroxymonosulphate) bis(sulphate)  
AEL \* (DUPONT) 1 mg/m3 15 minute TWA

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Sulfamic acid			
AEL *	(DUPONT)	0.5 mg/m3	8 & 12 hr. TWA
AEL *	(DUPONT)	1.5 mg/m3	15 minute TWA
Dipotassium peroxodisulphate			
TLV	(ACGIH)	0.1 mg/m3	TWA as persulfate

\* 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	: solid
Form	: powder
Color	: yellow
Odor	: pleasant, sweet
Odor threshold	: No applicable data available.
pH	: 2.4 - 2.7
Melting point/range	: No applicable data available.
Boiling point/boiling range	: No applicable data available.
Flash point	: does not flash
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.

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Specific gravity (Relative density)	: 1.89 - 1.93 at 24 °C (75 °F)
Water solubility	: 65 g/l at 20 °C (68 °F)
Solubility(ies)	: insoluble
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.
% Volatile	: 1.07 %

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Decomposes on heating.
Conditions to avoid	: Decomposition temperature 350 °C (662 °F) Protect from moisture.
Incompatible materials	: Strong bases combustibles, Acids, oxidizers, Brass, Copper, Halogenated compounds, Cyanides, Heavy metal salts
Hazardous decomposition products	: Hazardous thermal decomposition products: Fluorinated compounds

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Inhalation 4 h LC50 : 3.7 mg/l , Rat


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Dermal LD50	:	2,200 mg/kg , Rat
Oral LD50	:	4,123 mg/kg , Rat
Skin irritation	:	Irritating to skin., (Data on the product itself)
Sensitisation	:	Does not cause skin sensitisation., Buehler Test (Data on the product itself)  Does not cause respiratory sensitisation.,
Reproductive toxicity	:	No toxicity to reproduction

**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

Eye irritation	:	Corrosive, Rabbit
Mutagenicity	:	Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
Teratogenicity	:	Animal testing showed no developmental toxicity.

**Sodium dodecylbenzenesulfonate**

Eye irritation	:	Irreversible effects on the eye, Rabbit
Repeated dose toxicity	:	Ingestion Rat - NOAEL: > 220 mg/kg No toxicologically significant effects were found.
Carcinogenicity	:	Animal testing did not show any carcinogenic effects.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Teratogenicity	:	Animal testing showed no developmental toxicity.

**Malic acid**



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- Eye irritation : Severe eye irritation, Rabbit
- Repeated dose toxicity : Oral - feed  
Rat  
-  
No toxicologically significant effects were found.
- Carcinogenicity : Not classifiable as a human carcinogen.  
Due to its physical properties, there is no potential for adverse effects.
- Mutagenicity : Animal testing did not show any mutagenic effects.  
Evidence suggests this substance does not cause genetic damage in animals.
- Teratogenicity : Animal testing showed no developmental toxicity.

## Sulfamic acid

- Eye irritation : Eye irritation, Rabbit
- Repeated dose toxicity : Oral  
Rat  
- Method: OECD Test Guideline 408  
No toxicologically significant effects were found.
- Mutagenicity : Animal testing did not show any mutagenic effects.  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

## Dipotassium peroxodisulphate

- Eye irritation : Eye irritation, Rabbit  
Information given is based on data obtained from similar substances.
- Repeated dose toxicity : Oral  
Rat  
-  
NOAEL: 131.5 mg/kg Method: OECD Test Guideline 407  
No toxicologically significant effects were found.
- 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 : Animal testing did not show any mutagenic effects.  
Tests on bacterial or mammalian cell cultures did not show mutagenic



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effects.

Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.  
Information given is based on data obtained from similar substances.

Potassium hydrogensulphate

Eye irritation : Severe eye irritation, Rabbit  
Information given is based on data obtained from similar substances.

Repeated dose toxicity : Oral  
Rat  
- 28 d  
NOAEL: 1,000 mg/kg  
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Evidence suggests this substance does not cause genetic damage in animals.  
Information given is based on data obtained from similar substances.

Teratogenicity : No toxicity to reproduction  
Information given is based on data obtained from similar substances.

Dipotassium disulfate

Eye irritation : Corrosive, Not tested on animals

Terpenes And Terpenoids, Sweet Orange-Oil

Repeated dose toxicity : Ingestion  
Rat  
- 90 d  
NOAEL: 1,200 mg/kg  
LOAEL: 2,400 mg/kg  
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Carcinogenicity : Not classifiable as a human carcinogen.  
Overall weight of evidence indicates that the substance is not carcinogenic.  
Information given is based on data obtained from similar substances.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic



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effects.

Evidence suggests this substance does not cause genetic damage in animals.

Evidence suggests this substance does not cause genetic damage in cultured mammalian cells.

Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.

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.  
Information given is based on data obtained from similar substances.

### 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

#### Pentapotassium bis(peroxymonosulphate) bis(sulphate)

96 h LC50	:	Cyprinodon variegatus (sheepshead minnow) 1.09 mg/l Directive 67/548/EEC, Annex V, C.1.
96 h ErC50	:	Selenastrum capricornutum (green algae) > 1 mg/l OECD Test Guideline 201
72 h NOEC	:	Selenastrum capricornutum (green algae) 0.5 mg/l
48 h EC50	:	Daphnia magna (Water flea) 3.5 mg/l OECD Test Guideline 202
37 d	:	NOEC Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l
28 d	:	NOEC Americamysis bahia (mysid shrimp) 0.267 mg/l

#### Sodium dodecylbenzenesulfonate


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96 h LC50	:	Pimephales promelas (fathead minnow) 3.2 mg/l
72 h NOEC	:	Desmodesmus subspicatus (green algae) 7.7 mg/l
48 h EC50	:	Daphnia magna (Water flea) 4.1 mg/l
28 d	:	NOEC Pimephales promelas (fathead minnow) 0.87 mg/l
21 d	:	NOEC Daphnia magna (Water flea) 1.4 mg/l
Malic acid		
48 h EC50	:	Daphnia magna (Water flea) 240 mg/l
Sulfamic acid		
96 h LC50	:	Pimephales promelas (fathead minnow) 70.3 mg/l OECD Test Guideline 203 Information given is based on data obtained from similar substances.
72 h ErC50	:	Desmodesmus subspicatus (green algae) 48 mg/l OECD Test Guideline 201
72 h NOEC	:	Desmodesmus subspicatus (green algae) 18 mg/l OECD Test Guideline 201
48 h EC50	:	Daphnia magna (Water flea) 71.6 mg/l OECD Test Guideline 202
Dipotassium peroxodisulphate		
96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 76.3 mg/l US EPA Test Guideline OPP 72-1 Information given is based on data obtained from similar substances.
72 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 83.7 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
72 h NOEC	:	Pseudokirchneriella subcapitata (green algae) 39.2 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
48 h EC50	:	Daphnia magna (Water flea) 120 mg/l US EPA Test Guideline OPP 72-2 Information given is based on data obtained from similar substances.

Potassium hydrogensulphate



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96 h LC50 : Pimephales promelas (fathead minnow) 7,960 mg/l  
Information given is based on data obtained from similar substances.

48 h EC50 : Daphnia magna (Water flea) 1,766 mg/l  
Information given is based on data obtained from similar substances.

### Terpenes And Terpenoids, Sweet Orange-Oil

96 h LC50 : Pimephales promelas (fathead minnow) 0.7 mg/l  
Information given is based on data obtained from similar substances.

48 h EC50 : Daphnia magna (Water flea) 0.42 mg/l  
Information given is based on data obtained from similar substances.

### Environmental Fate

#### Malic acid

Biodegradability : Readily biodegradable

Bioaccumulation : Accumulation in aquatic organisms is unlikely.

#### Sulfamic acid

Biodegradability : Biodegradable  
Not applicable

#### Dipotassium peroxodisulphate

Biodegradability : Readily biodegradable

#### Potassium hydrogensulphate

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

### Terpenes And Terpenoids, Sweet Orange-Oil

Biodegradability : rapidly biodegradable  
Information given is based on data obtained from similar substances.

Bioaccumulation : The substance has the potential to bioaccumulate.  
Information given is based on data obtained from similar substances.

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : In accordance with local and national regulations. Do not flush into surface water or sanitary sewer system. Do not contaminate water, food or feed by

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disposal.

Contaminated packaging : Dispose of container properly.  
If recycling is not practicable, dispose of in compliance with local regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

TSCA : On the inventory, or in compliance with the inventory

EPA Reg. No. : 71654-7

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPATSCA.

This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information required by USEPA on the pesticide label:

**DANGER!** Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get on skin or clothing. Wear protective clothing and rubber gloves. Wear goggles, face shield or safety glasses. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using



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the toilet. Remove and wash contaminated clothing before re-use. Corrosive statement does not refer to 1% in-use solution.

**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.

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Do not use for medical-clinical purposes.

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Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 19898, (800) 441-7515

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.

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