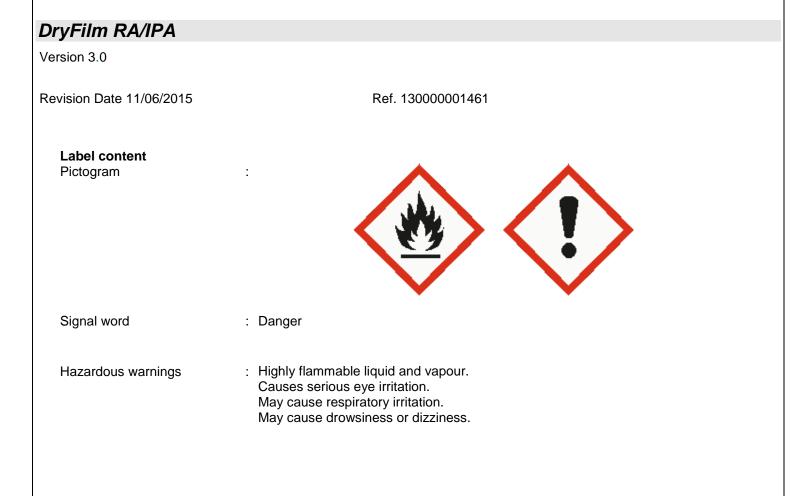
Safety Data Sheet	
	Chemours [™]
DryFilm RA/IPA	
Version 3.0	
Revision Date 11/06/2015	Ref. 13000001461
This SDS adheres to the stand requirements in other countries	lards and regulatory requirements of the United States and may not meet the regulatory s.
SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION
Product name Product Use	: DryFilm RA/IPA : Dry lubricant, For industrial use only.
Restrictions on use Manufacturer/Supplier	 Do not use product for anything outside of the above specified uses The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19899 United States of America
Product Information Medical Emergency Transport Emergency	
SECTION 2. HAZARDS IDEN Product hazard category Flammable liquid Serious eye dam Specific target o	ds Category 2 nage/eye irritation Category 2A
single exposure	
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Hazardous prevention measures	 Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco., Repeated episodes of polymer fume fever may result in persistent lung effects.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 18 %



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Propan-2-ol	67-63-0	70 - 80 %

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	: When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
Skin contact	 In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Consult a physician if necessary.
Eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Seek medical advice.
Ingestion	: DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a physician.
Most important symptoms/effects, acute and delayed	: Inhalation may provoke the following symptoms: Polymer fume fever
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Protection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing
Notes to physician	: Treat symptomatically.
CTION 5. FIREFIGHTING MEA	SURES
Suitable extinguishing media	: Dry chemical, Alcohol-resistant foam, Water spray, Carbon dioxide (CO2)
Unsuitable extinguishing media	: No applicable data available.
Specific hazards	: Flammable liquid Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. In fire conditions, toxic decomposition products may be formed. (see also section 10)
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Further information	: Evacuate personnel to safe areas. In the event of fire, cool tanks with water spray.
	ASE MEASURES G MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up PROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel)	: Ventilate spill area. Wear self-contained breathing apparatus and protective suit. Remove all sources of ignition.
Environmental precautions	: Prevent material from entering sewers, waterways, or low areas.
Spill Cleanup	: Dike spill. Soak up with inert absorbent material (e.g. sand, silica gel, acid 5 / 13



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	binder, universal binder, sawdust).
Accidental Release Measures	: No applicable data available.
ECTION 7. HANDLING AND STO	DRAGE
Handling (Personnel)	: Do not breathe vapours or spray mist. Avoid contact with skin, eyes and
	clothing. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
Handling (Physical Aspects)	: Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Dust explosion class Storage	No applicable data available.Keep containers tightly closed in a dry, cool and well-ventilated place.
Storage period	: No applicable data available.
Storage temperature	: No applicable data available.
ECTION 8. EXPOSURE CONTRO	DLS/PERSONAL PROTECTION
Engineering controls	: Use only with adequate ventilation.
Personal protective equipment Respiratory protection	: Provide adequate ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection	: Material: Impervious gloves
Eye protection	: Wear coverall chemical splash goggles.
Skin and body protection	: Preventive skin protection Where there is potential for skin contact, have available and wear as
	appropriate, impervious gloves, apron, pants, jacket, hood and boots.



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Exposure Guidelines Exposure Limit Values					
Propan-2-ol Permissible	(OSHA)	400 ppm	980 mg/m3	8 hr. TWA	
exposure limit: TLV TLV	(ACGIH) (ACGIH)	200 ppm 400 ppm	TWA STEL		
ological Exposure Indices					
Propan-2-ol BEI	(ACGIH)	40 mg/l Ace		nd of work week.	
ECTION 9. PHYSICAL AND C					
ECTION 9. PHYSICAL AND C Appearance Physical state Form Color	: liquid : liquid				
Appearance Physical state Form	: liquid : liquid : white, tr	OPERTIES			
Appearance Physical state Form Color	: liquid : liquid : white, tr : alcohol-	OPERTIES ranslucent	stic		
Appearance Physical state Form Color Odor	: liquid : liquid : white, tr : alcohol-	OPERTIES ranslucent ·like, characteri	stic		
Appearance Physical state Form Color Odor Odor threshold	 liquid liquid white, tr alcohol- No appl 4 - 7 Melting 295 - 30 Freezing 	OPERTIES ranslucent like, characteri licable data ava point/range 05 °C (563 - 58	istic ailable.		
Appearance Physical state Form Color Odor Odor threshold pH	 liquid liquid white, tr alcohol- No appl 4 - 7 Melting 295 - 30 Freezing -89 °C (OPERTIES ranslucent like, characteri licable data ava point/range 05 °C (563 - 58 g point -128 °F)	istic ailable.		



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Flash point	: 12 °C
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: 12.0 vol%
Lower explosion limit	: 2.0 vol%
Vapor pressure	: 33 mm Hg at 20 °C (68 °F)
Vapor density	: 2.07 at 20 °C (68 °F) (Air = 1.0)
Specific gravity (Relative density)	: 0.96 at 22 °C (72 °F)
Water solubility	: partly soluble
Solubility(ies)	: No applicable data available.
Partition coefficient: n- octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Ignition temperature	: 399 °C
Decomposition temperature	: 300 °C
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.
ECTION 10. STABILITY AND R	EACTIVITY
Reactivity	: Stable under recommended storage conditions.
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Chemical stability	: Stable under normal conditions.			
Possibility of hazardous reactions	Reacts with Aluminum above 49 deg C. Polymerization will not occur.			
Conditions to avoid	: Heat, flames and sparks. Decomposes on heating. Decomposition temperature 300 °C (572 °F)			
Incompatible materials	: strong oxidizers Strong acids, reactive metals, Halogenated compounds, Aldehydes, Strong bases, Alkali metals, Alkaline earth metals			
Hazardous decomposition products	: Carbon oxides, Fluorinated compounds			
SECTION 11. TOXICOLOGICAL I	NFORMATION			
Propan-2-ol				
Inhalation 4 h LC50	: 72.6 mg/l , Rat Target Organs: Central nervous system Central nervous system depression			
Dermal LD50	: 12,870 mg/kg , Rabbit			
Oral LD50	: 5,840 mg/kg , Rat			
Skin irritation	: No skin irritation, Rabbit			
Eye irritation	: Eye irritation, Rabbit			
Skin sensitization	: Does not cause skin sensitisation., Guinea pig			
	Does not cause respiratory sensitisation., Mouse			
Repeated dose toxicit	y : Inhalation multiple species			
	No toxicologically significant effects were found.			
Carcinogenicity	: Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not			
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	carcinogenic.
Mutagenicity	: Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	 No toxicity to reproduction Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Teratogenicity	: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
to HazCom 2012, Appendi	ications for this product and/or its ingredients have been determined according x A.6. The classifications may differ from those listed in the National Toxicology
The carcinogenicity classif to HazCom 2012, Appendi Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a	x A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen.
The carcinogenicity classif to HazCom 2012, Appendi Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a	x A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen.
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The carcinogenicity classif to HazCom 2012, Appendi Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity Propan-2-ol	 x A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. RMATION : Pimephales promelas (fathead minnow) 9,640 mg/l OECD Test
The carcinogenicity classif to HazCom 2012, Appendi Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity Propan-2-ol 96 h LC50	 x A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. RMATION Pimephales promelas (fathead minnow) 9,640 mg/l OECD Test Guideline 203
The carcinogenicity classif to HazCom 2012, Appendi Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity Propan-2-ol 96 h LC50 72 h ErC50	 x A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. EMATION Pimephales promelas (fathead minnow) 9,640 mg/l OECD Test Guideline 203 Scenedesmus quadricauda (Green algae) > 1,000 mg/l
The carcinogenicity classif to HazCom 2012, Appendi Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity Propan-2-ol 96 h LC50 72 h ErC50 24 h EC50	 x A.6. The classifications may differ from those listed in the National Toxicology Carcinogens (latest edition) or those found to be a potential carcinogen in the esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. EMATION Pimephales promelas (fathead minnow) 9,640 mg/l OECD Test Guideline 203 Scenedesmus quadricauda (Green algae) > 1,000 mg/l Daphnia (water flea) > 10,000 mg/l OECD Test Guideline 202



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Propan-2-ol Biodec	gradability	:	Readily biodegradable	
Bioaccumulation			Bioaccumulation is unlikely.	
Additional ecological information		:	No data is available on the product itself.	
SECTION 13. DISF	OSAL CONSIDER	ATION	IS	
Waste disposal Product	methods - :	Dispo: regula	se of as hazardous waste in compliance with local and national ations.	
Contaminated packaging :		Dispose of container properly. If recycling is not practicable, dispose of in compliance with local regulations.		
SECTION 14. TRA	UN number	ATION	: 1219	
	Proper shipping	name	: Isopropanol solution	
	Class Packing group		: 3 : II	
	Labelling No.		: 3	
IATA_C	Reportable Qua	antity	: Isopropanol : 1219	
	Proper shipping	g name	e : Isopropanol solution	
	Class		: 3	
	Packing group Labelling No.		: II : 3	
IMDG	UN number			
	Proper shipping Class Packing group	, name	e : ISOPROPANOL SOLUTION : 3 : II	
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No. : 3		
NFORMATION		
: On the inventory, or in compliance with the inventory		
: Isopropyl Alcohol		
: Acute Health Hazard: Yes Chronic Health Hazard: Yes Fire: Yes Reactivity/Physical hazard: Yes Pressure: Yes		
: 134 lbs Based on the percentage composition of this chemical in the product.: Propan-2-ol		

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Revision Date : 11/06/2015

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.

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