

Versior 12.4	Revision Date: 04/17/2023	SE 13	9S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
SECTIO	ON 1. IDENTIFICATION				
Product name		:	420G-714 PRIME	ER GREEN	
SE	SDS-Identcode		130000127099		
Ма	anufacturer or supplier's o	deta	ils		
Co	ompany name of supplier	:	The Chemours Co	ompany FC, LLC	
Ad	dress	:	1007 Market Stree Wilmington, DE 1	et 9801 United States of America (USA)	
Те	lephone	:	1-844-773-CHEM	(outside the U.S. 1-302-773-1000)	
Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302- 773-2000) ; Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887)		
Re	commended use of the c	hen	nical and restriction	ons on use	
Re	commended use	:	Coatings		
Re	estrictions on use	:	For professional u Do not use or rest tions involving imp internal body fluid written agreemen please contact yo	users only. ell Chemours™ materials in medical applica- blantation in the human body or contact with s or tissues unless agreed to by Seller in a t covering such use. For further information, ur Chemours representative.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	:	Category 3
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3

GHS label elements

SAFETY DATA SHEET



Version 12.4	Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Haza	rd pictograms		
Signa	al Word	: Danger	
Haza	rd Statements	: H226 Flammab H315 Causes s H318 Causes s H335 May caus H336 May caus H351 Suspecte H360D May da	ble liquid and vapor. skin irritation. serious eye damage. se respiratory irritation. se drowsiness or dizziness. ed of causing cancer. mage the unborn child.
Preca	autionary Statements	 Prevention: P201 Obtain sp P202 Do not ha and understood P210 Keep awa es. No smoking P233 Keep cor P241 Use explain equipment. P242 Use only P243 Take pre P261 Avoid bre P264 Wash ski P271 Use only P280 Wear pro- and face protect 	becial instructions before use. andle until all safety precautions have been read d. ay from heat, sparks, open flame and hot surfac- g. trainer tightly closed. osion-proof electrical, ventilating and lighting non-sparking tools. cautionary measures against static discharge. eathing mist or vapors. n thoroughly after handling. outdoors or in a well-ventilated area. tective gloves, protective clothing, eye protection ction.
		Response:	
		P303 + P361 + all contaminate P304 + P340 + and keep comf unwell. P305 + P351 + water for sever and easy to do CENTER. P308 + P313 If P332 + P313 If P362 + P364 T reuse.	 P353 IF ON SKIN (or hair): Take off immediately d clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor if you feel P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON F exposed or concerned: Get medical attention. skin irritation occurs: Get medical attention. ake off contaminated clothing and wash it before
		Storage: P403 + P235 S P405 Store loc	tore in a well-ventilated place. Keep cool. ked up.
		Disposal: P501 Dispose disposal plant.	of contents and container to an approved waste



10/28/2022 02/27/2017

420G-714 PRIMER GREEN

Version	Revision Date:	SDS Number:	Date of last issue:
12.4	04/17/2023	1343449-00048	Date of first issue:

Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: $6.7283 \ \%$

Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flulike symptoms in humans, especially when smoking contaminated tobacco. Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	/ Mixture	:	Mixture

Chemical nature	:	Paint
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Components

Chemical name	CAS-No.	Concentration (% w/w)
N-Methyl-2-pyrrolidone	872-50-4	>= 30 - < 50
Isobutyl methyl ketone	108-10-1	>= 10 - < 20
Gamma-Butyrolactone	96-48-0	>= 10 - < 20
Barium sulfate	7727-43-7	>= 5 - < 10
Chromium oxide	1308-38-9	>= 5 - < 10
Diacetone alcohol	123-42-2	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.



Version 12.4	Revision Date: 04/17/2023	SE 13	OS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Most and e delay	important symptoms ffects, both acute and ed	:	Causes skin irrita Causes serious e May cause respir May cause drows Suspected of cau May damage the	tion. ye damage. atory irritation. iness or dizziness. sing cancer. unborn child.
Prote	ction of first-aiders	:	First Aid responder and use the recor when the potentia	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).
Notes	to physician	:	Treat symptomati	cally and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Nitrogen oxides (NOx) Carbon oxides Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Sulfur oxides Chlorine compounds Metal oxides Chromium compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Remove all sources of ignition.



Vers 12.4	sion	Revision Date: 04/17/2023	SD 134	S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
	tive equipment and emer- gency procedures			Use personal prot Follow safe handl tective equipment	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
	Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment of oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
	Methods and materials for containment and cleaning up		:	Non-sparking tool Soak up with iner Suppress (knock jet. For large spills, pr ment to keep mat pumped, store red Clean up remaining bent. Local or national in sal of this materia ployed in the clea which regulations Sections 13 and 1 certain local or national in	s should be used. t absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dispo- I, as well as those materials and items em- nup of releases. You will need to determine are applicable. 15 of this SDS provide information regarding tional requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	:	Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Non-sparking tools should be used. Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitizers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



Versio 12.4	n Revision Date: 04/17/2023	SE 13	9S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
			Take precautiona Take care to prev environment.	ry measures against static discharges. ent spills, waste and minimize release to the
			Do not breathe de	ecomposition products.
С	onditions for safe storage	:	Keep in properly I Store locked up. Keep tightly close Keep in a cool, we Store in accordan Keep away from h	abeled containers. ed. ell-ventilated place. ice with the particular national regulations. neat and sources of ignition.
Μ	laterials to avoid	:	Do not store with Strong oxidizing a Self-reactive subs Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs Substances and r flammable gases Explosives Gases Very acutely toxic	the following product types: agents stances and mixtures s tances and mixtures nixtures which in contact with water emit
R pr	ecommended storage tem- erature	:	41 - 77 °F / 5 - 25	°C
F	urther information on stor- ge stability	:	Do not freeze.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
N-Methyl-2-pyrrolidone	872-50-4	TWA	15 ppm 60 mg/m³	US WEEL
		STEL	30 ppm 120 mg/m³	US WEEL
Isobutyl methyl ketone	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m³	NIOSH REL
		ST	75 ppm 300 mg/m³	NIOSH REL
		TWA	100 ppm 410 mg/m³	OSHA Z-1
Barium sulfate	7727-43-7	TWA (Inhal- able particu-	5 mg/m³	ACGIH

Ingredients with workplace control parameters



Versio 12.4	on Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of las Date of firs	t issue: 10/28/2022 ti issue: 02/27/2017	
			late matter)		
			TWA (Res- pirable)	5 mg/m³	NIOSH REL
			TWA (total)	10 mg/m ³	NIOSH REL
			TWA (total dust)	15 mg/m³	OSHA Z-1
			TWA (respir- able fraction)	5 mg/m³	OSHA Z-1
C	Chromium oxide	1308-38-9	TWA	0.5 mg/m ³ (chromium)	OSHA Z-1
			TWA	0.5 mg/m ³ (chromium)	NIOSH REL
D	Diacetone alcohol	123-42-2	TWA	50 ppm	ACGIH
			TWA	50 ppm 240 mg/m ³	NIOSH REL
			TWA	50 ppm 240 mg/m ³	OSHA Z-1

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrogen fluoride	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		С	6 ppm 5 mg/m³	NIOSH REL
		TWA	3 ppm 2.5 mg/m ³	NIOSH REL
		TWA	3 ppm	OSHA Z-2
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		TWA	2 ppm 5 mg/m ³	NIOSH REL
		ST	5 ppm 15 mg/m³	NIOSH REL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m³	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m ³	NIOSH REL
		С	200 ppm 229 mg/m ³	NIOSH REL



Version 12.4	Revision Date: 04/17/2023	S 1:	DS N 34344	umber: 19-00048		Date of las Date of firs	t issue: 10/2 st issue: 02/2	28/2022 27/2017			
					Т١	VA	50 ppm 55 mg/m ³	i	05	SHA Z-1	
1-Pro penta	opene, 1,1,3,3,3- afluoro-2-(trifluorome	ethyl)-	382	-21-8	С		0.01 ppm		AC	GIH	
Biol	Biological occupational exposure limits										
Com	ponents	CAS-N	No.	Control paramete	rs	Biological specimen	Sam- pling time	Permissil concentra tion	ble a-	Basis	
N-M	ethyl-2-pyrrolidone	872-5	0-4	5-Hydrox N-methyl- pyrrolidor	y- ∙2- ne	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l		ACGIH BEI	
Isob	utyl methyl ketone	108-10	0-1	methyl isobutyl ketone		Urine	End of shift (As soon as possible after exposure ceases)	1 mg/l		ACGIH BEI	
	10). Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equipment.										
Pers	onal protective equ	lipmen	t								
Resp	Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. When concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazar-dous chemical is limited. Use a positive pressure air supplier respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.					to Where) and ovided ar- pplied se, se te					
Hand	d protection										
N	laterial	:	Ch	emical-resi	star	nt gloves					
R	emarks	:	Che on tim For sist	bose glove the concen e is not det special ap ance to ch	s to itrat erm oplic emi	protect han ion specific nined for the ations, we re cals of the a	ds against of to place of v product. Cl ecommend foremention	chemicals work. Brea nange glov clarifying ned protec	dep akthr ves o the r ctive	ending ough often! e- glo-	



Version 12.4	Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
		ves with the gl is flammable, tion. Wash ha	ove manufacturer. Take note that the product which may impact the selection of hand protec- nds before breaks and at the end of workday.
Eye pı	rotection	: Wear the follo Chemical resis If splashes are Face-shield	wing personal protective equipment: stant goggles must be worn. e likely to occur, wear:
Skin and body protection		: Select appropresistance dat potential. Wear the follor If assessment atmospheres of protective clott Skin contact m clothing (glove	riate protective clothing based on chemical a and an assessment of the local exposure wing personal protective equipment: demonstrates that there is a risk of explosive or flash fires, use flame retardant antistatic hing. hust be avoided by using impervious protective es, aprons, boots, etc).
Hygier	ne measures	: If exposure to eye flushing sy king place. When using do Wash contami	chemical is likely during typical use, provide ystems and safety showers close to the wor- o not eat, drink or smoke. nated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	green
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 291 °F / > 144 °C
Flash point	:	131 °F / 55 °C
		Method: ISO 3679
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable

SAFETY DATA SHEET



420G-714 PRIMER GREEN

Vers 12.4	sion I	Revision Date: 04/17/2023	SD 134	S Number: 3449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
	Flamm	ability (liquids)	:	Sustains combus	tion
	Upper flamma	explosion limit / Upper ability limit	:	No data available	
	Lower flamma	explosion limit / Lower ability limit	:	No data available	
	Vapor	pressure	:	No data available	9
	Relativ	e vapor density	:	No data available	9
	Density	/	:	1.1770 g/cm ³	
	Solubil Wat	ity(ies) ter solubility	:	soluble	
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	
	Viscosi Visc	ity cosity dynamic		64 mPa s	
	Viso	cosity, kinematic	:	No data available	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents

Hazardous decomposition products



Version 12.4	Revision Date: 04/17/2023	SE 13	DS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Ther	mal decomposition	:	Hydrogen fluorid Carbonyl difluorid Carbon dioxide Carbon monoxid 1-Propene, 1,1,3	e de e ,3,3-pentafluoro-2-(trifluoromethyl)-
SECTION	11. TOXICOLOGICAL	INF	ORMATION	
Infor Inhal Skin Inges Eye o	mation on likely routes ation contact stion contact	s of (exposure	
Acut Not c	e toxicity classified based on availa	able	information.	
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 3,813 mg/kg on method
Acute	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	mate: 65.94 mg/l h vapor on method
<u>Com</u>	ponents:			
N-Me	ethyl-2-pyrrolidone:			
Acute	e oral toxicity	:	LD50 (Rat): 4,150	mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD Te	mg/l h dust/mist est Guideline 403
Acute	e dermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Isobi	utvl methyl ketone:			
Acute	e oral toxicity	:	LD50 (Rat): 2,080	mg/kg
Acute	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju	mate: 11 mg/l h vapor dgment
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity	00 mg/kg est Guideline 402 substance or mixture has no acute dermal

Gamma-Butyrolactone:

SAFETY DATA SHEET



Version 12.4	Revision Date: 04/17/2023	SE 13	DS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Acut	e oral toxicity	:	LD50 (Rat): 1,5	82 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher	.1 mg/l 4 h re: dust/mist
Bari	um sulfate:			222 ···· // ·
Acut	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Chro	omium oxide:			
Acut	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher Method: OECD Assessment: The tion toxicity	.41 mg/l 4 h re: dust/mist Test Guideline 403 ne substance or mixture has no acute inhala-
Diac	etone alcohol:			
Acut	e oral toxicity	:	LD50 (Rat): 3,0	02 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 7 Exposure time: Test atmospher	.6 mg/l 4 h e: vapor
Acut	e dermal toxicity	:	LD50 (Rabbit):	> 5,000 mg/kg
Skin Cau	corrosion/irritation ses skin irritation.			
<u>Com</u>	iponents:			
N-M Resi	ethyl-2-pyrrolidone: ult	:	Skin irritation	
lsoh	utyl methyl ketone:			
Spec	cies		Rabbit	
Meth	nod	:	OECD Test Gu	deline 404
Rest	ult	:	No skin irritatio	1
Asse	essment	:	Repeated expo	sure may cause skin dryness or cracking.
Gam	ma-Butyrolactone:			
Spec Resi	cies ult	:	Rabbit No skin irritatio	1
Bari	um sulfate:			
Spec Meth	cies nod	:	reconstructed h OECD Test Gu	uman epidermis (RhE) deline 439



Version 12.4	Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
Rem	arks	: Based on dat	a from similar materials	
Resu	ılt	: No skin irritat	ion	
Chro	omium oxide:			
Spec	cies	: Rabbit		
Meth	od	: OECD Test C	Guideline 404	
Resu	ılt	: No skin irritat	ion	
Diac	etone alcohol:			
Spec	cies	: Rabbit		
Resu	ılt	: No skin irritat	ion	
Serie	ous eye damage/eye	irritation		
Caus	ses serious eye damaç	ge.		
<u>Com</u>	ponents:			
N-Me	ethyl-2-pyrrolidone:			
Spec	cies	: Rabbit		
Resu	llt	: Irritation to ey	es, reversing within 21 days	
lsob	utyl methyl ketone:			
Spec	cies	: Human		
Resu	ılt	: Irritation to ey	ves, reversing within 21 days	
Gam	ma-Butyrolactone:			
Spec	zies	: Rabbit		
Resi	ılt	: Irreversible e	ffects on the eye	
Meth	od	: OECD Test C	Buideline 405	
Bari	um sulfate:			
Spec	cies	: Rabbit		
Resu	ılt	: No eye irritati	on	
Meth	od	: OECD Test C	Guideline 405	
Chro	omium oxide:			
Spec	cies	: Rabbit		
Resu	ılt	: No eye irritati	on	
Meth	od	: OECD Test C	Guideline 405	
Diac	etone alcohol:			
Spec	cies	: Rabbit		
Resu	ılt	: Irritation to ey	ves, reversing within 7 days	
Meth	od	: OECD Test O	Guideline 405	



Version 12.4	Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Re	spiratory or skin sensitiz	ation	
Sk i No	in sensitization t classified based on availa	ble information.	
Re No	spiratory sensitization t classified based on availa	ble information.	
<u>Co</u>	emponents:		
N-1	Methyl-2-pyrrolidone:		
Te: Ro Spi Me Re Re	st Type outes of exposure ecies ethod soult marks	 Local lymph node Skin contact Mouse OECD Test Guide negative Based on data from 	e assay (LLNA) eline 429 om similar materials
lso	butyl methyl ketone:		
Tes Ro Spo Me Re	st Type outes of exposure ecies ethod esult	 Maximization Tes Skin contact Guinea pig OECD Test Guide negative 	st eline 406
Ga	mma-Butyrolactone:		
Tes Ro Spo Me Re	st Type outes of exposure ecies ethod esult	 Local lymph node Skin contact Mouse OECD Test Guide negative 	e assay (LLNA) eline 429
Ва	rium sulfate:		
Tes Ro Spo Me Re Re	st Type outes of exposure ecies ethod esult emarks	 Local lymph node Skin contact Mouse OECD Test Guide negative Based on data from 	e assay (LLNA) eline 429 om similar materials
Ch	romium oxide:		
Tes Ro Spo Me Re Re	st Type outes of exposure ecies ethod esult emarks	 Buehler Test Skin contact Guinea pig OECD Test Guide negative Based on data from 	eline 406 om similar materials
Dia	acetone alcohol:		
Te: Ro Spe	st Type outes of exposure ecies	: Maximization Tes : Skin contact : Guinea pig	st



Vers 12.4	sion I	Revision Date: 04/17/2023	SE 13	DS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017		
	Method Result		:	OECD Test Guide	eline 406		
Germ cell mutagenicity Not classified based on availa			able information.				
	Comp	onents:					
	N-Met	hyl-2-pyrrolidone:					
	Genoto	oxicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	ial reverse mutation assay (AMES) est Guideline 471		
				Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476		
				Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)		
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	nalian erythrocyte micronucleus test (in vivo ⁄) : Ingestion est Guideline 474		
				Test Type: Mutag cytogenetic test, o Species: Hamster Application Route Method: OECD To Result: negative	enicity (in vivo mammalian bone-marrow chromosomal analysis) : Ingestion est Guideline 475		
	Isobut	yl methyl ketone:					
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)		
				Test Type: In vitro Result: equivocal	o mammalian cell gene mutation test		
				Test Type: Chrom Result: negative	osome aberration test in vitro		
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD T Result: negative	nalian erythrocyte micronucleus test (in vivo /) : Intraperitoneal injection est Guideline 474		

Gamma-Butyrolactone:



Versi 12.4	on Revision Date: 04/17/2023	SD 13	0S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
(Genotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
	Barium sulfate:			
(Genotoxicity in vitro	:	Test Type: Bacter Result: negative Remarks: Based o	ial reverse mutation assay (AMES) on data from similar materials
			Test Type: Chrom Result: negative Remarks: Based o	osome aberration test in vitro
			Test Type: In vitro Method: OECD To Result: negative Remarks: Based	o mammalian cell gene mutation test est Guideline 476 on data from similar materials
(Chromium oxide:			
(Genotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
(Genotoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	nalian erythrocyte micronucleus test (in vivo ') : Intraperitoneal injection est Guideline 474
	Disastana alashalu			
(Genotoxicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	ial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitro Method: OECD To Result: negative	e mammalian cell gene mutation test est Guideline 476
			Test Type: Chrom Method: OECD To Result: negative	osome aberration test in vitro est Guideline 473
	Carcinogenicity Suspected of causing cance	r.		
<u>(</u>	Components:			
I	N-Methyl-2-pyrrolidone:			
	Species Application Route Exposure time Result	:	Rat Ingestion 2 Years negative	



Version 12.4	Revisi 04/17/2	on Date: 2023	SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Spe App Exp Res	cies lication Ro osure time ult	ute	: Rat : inhalation (vapo : 2 Years : negative	or)
Isot Spe App Exp Met Res Spe App Exp Met Res	butyl meth cies lication Ro osure time hod ult cies lication Ro osure time hod ult	yl ketone: ute ute	 Rat inhalation (vapolicity) 2 Years OECD Test Guilt positive Mouse inhalation (vapolicity) 2 Years OECD Test Guilt positive 	or) ideline 451 or) ideline 451
Care	cinogenicity it	/ - Assess-	: Limited evidence	ce of carcinogenicity in animal studies
Gan Spe App Exp Res	nma-Butyr cies lication Ro osure time ult	olactone: ute	: Rat : Ingestion : 103 weeks : negative	
Bar	ium sulfate	e:		
Spe App Exp Res Ren	cies lication Ro osure time ult narks	ute	: Rat : Ingestion : 2 Years : negative : Based on data	from similar materials
Chr Spe App Exp Res	omium ox cies lication Ro osure time ult	ide: ute	: Rat : Ingestion : 2 Years : negative	
IAR	С	Group 2B: Po Isobutyl meth	ossibly carcinogenic	to humans 108-10-1
OSł	A	No componer on OSHA's lis	nt of this product pre st of regulated carcin	sent at levels greater than or equal to 0.1% is ogens.
NTF)	No ingredient identified as a	t of this product pres a known or anticipate	ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.

Reproductive toxicity

May damage the unborn child.



Vers 12.4	'ersion Revision Date: SDS Number 2.4 04/17/2023 1343449-00		0S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
	<u>Comp</u>	onents:			
	N-Methyl-2-pyrrolidone: Effects on fertility : Test Ty Specie Applica Method Result:		Test Type: Two-g Species: Rat Application Route Method: OECD To Result: negative	eneration reproduction toxicity study : Ingestion est Guideline 416	
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: positive Test Type: Fertilit Species: Rat	ro-fetal development : Ingestion est Guideline 414 y/early embryonic development
				Application Route Result: positive Test Type: Embry Species: Rabbit Application Route Result: positive	: inhalation (vapor) ro-fetal development : Ingestion
	Reproc sessm	ductive toxicity - As- ent	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
	Isobut	vl methvl ketone:			
	Effects	on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : inhalation (vapor)
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : inhalation (vapor)
	Gamm	a-Butyrolactone:			
	Effects	on fertility	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD To Result: negative Remarks: Based of	ined repeated dose toxicity study with the elopmental toxicity screening test : Ingestion est Guideline 422 on data from similar materials
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion

SAFETY DATA SHEET



Ver 12.4	sion 4	Revision Date: 04/17/2023	SE 13	S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
	Barium	n sulfate:			
	Effects	on fertility	:	Test Type: Fertilit Species: Rat Application Route Result: negative Remarks: Based	y/early embryonic development : Ingestion on data from similar materials
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD T Result: negative Remarks: Based	vo-fetal development e: Ingestion est Guideline 414 on data from similar materials
	Chrom	ium oxide:			
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative Remarks: Based	vo-fetal development :: Ingestion on data from similar materials
	Diacete	one alcohol:			
	Effects	on fertility	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion est Guideline 422
	Effects	on fetal development	:	Test Type: Embry Species: Rabbit Application Route Method: OECD T Result: positive	vo-fetal development : Ingestion est Guideline 414
	Reprod sessme	luctive toxicity - As- ent	:	Some evidence o animal experimer	f adverse effects on development, based on nts.
	STOT-	single exposure			
	May ca May ca	use respiratory irritatio use drowsiness or dizz	n. zine:	SS.	
	<u>Compo</u>	onents:			
	N-Meth	yl-2-pyrrolidone:			
	Assess	ment	:	May cause respire	atory irritation.
	Isobuty	vl methvl ketone:			
	Assess	ment	:	May cause drows	iness or dizziness.



VersionRevision Date:12.404/17/2023		SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
	Gamm	a-Butvrolactone:		
	Assessment		: May cause dro	owsiness or dizziness.
	Diacet	tone alcohol:		
	Asses	sment	: May cause res	spiratory irritation.
	STOT	-repeated exposure		
	Not cla	assified based on avail	lable information.	
	<u>Comp</u>	<u>onents:</u>		
	Bariur	n sulfate:		
	Asses	sment	: No significant tions of 100 m	health effects observed in animals at concentra- g/kg bw or less.
	Repea	ted dose toxicity		
	<u>Comp</u>	<u>onents:</u>		
	N-Met	hyl-2-pyrrolidone:		
	Specie NOAE LOAEI Applica Exposi Metho Specie NOAE LOAEI Applica Exposi Metho Specie NOAE	es L ation Route ure time d es L L ation Route ure time d es L L	 Rat, male 169 mg/kg 433 mg/kg Ingestion 90 Days OECD Test G Rat 0.5 mg/l inhalation (dustion) 96 Days OECD Test G Rabbit 826 mg/kg 1,653 mg/kg Skin contact 	uideline 408 st/mist/fume) uideline 413
	Applica	ation Route	: Skin contact	
	Expos		. 20 Days	
	Isobut	yl methyl ketone:		
	Specie NOAE LOAEI Applica Expos	es L L ation Route ure time	: Rat : 250 mg/kg : 1,000 mg/kg : Ingestion : 13 Weeks	
	Specie NOAE Applica Expos	es L ation Route ure time	: Rat : 4.106 mg/l : inhalation (vap : 14 Weeks	por)



Version 12.4	Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
Gam Spec NOA Appli Expo	ma-Butyrolactone: ies EL cation Route sure time	: Rat : 225 mg/kg : Ingestion : 13 Weeks	
Barit Spec NOA Appli Expo Rema	im sulfate: ies EL cation Route sure time arks	: Rat : 61.1 mg/kg : Ingestion : 90 Days : Based on data fr	om similar materials
Chro Spec NOA Appli Expo	mium oxide: ies EL cation Route sure time	: Rat : 2,000 mg/kg : Ingestion : 90 Days	
Diace Spec NOA Appli Expo Meth	etone alcohol: ies EL cation Route sure time od	: Rat : >= 600 mg/kg : Ingestion : 13 Weeks : OECD Test Guid	deline 408
Spec NOA Appli Expo	ies EL cation Route sure time	: Rat : >= 4.685 mg/l : inhalation (vapor : 6 Weeks)

Aspiration toxicity

Not classified based on available information.

Components:

Isobutyl methyl ketone:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

N-Methyl-2-pyrrolidone:



Versio 12.4	n Revision Date: 04/17/2023	SE 13	OS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017				
SECTI	SECTION 12. ECOLOGICAL INFORMATION							
E	cotoxicity							
<u>c</u>	omponents:							
Ν	-Methyl-2-pyrrolidone:							
T	oxicity to fish	:	LC50 (Oncorhyno Exposure time: 96	hus mykiss (rainbow trout)): > 500 mg/l ទ h				
T) ad	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: DIN 384	nagna (Water flea)): > 1,000 mg/l 4 h 12				
T pl	oxicity to algae/aquatic ants	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 600.5 mg/l 2 h				
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 92.6 mg/l 2 h				
T ac ic	oxicity to daphnia and other quatic invertebrates (Chron-toxicity)	:	NOEC (Daphnia r Exposure time: 2 [·] Method: OECD T	nagna (Water flea)): 12.5 mg/l I d est Guideline 211				
T	oxicity to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 Method: ISO 8192) min 2				
ls	obutyl methyl ketone:							
T	oxicity to fish	:	LC50 (Danio reric Exposure time: 96 Method: OECD T) (zebra fish)): > 179 mg/l 5 h est Guideline 203				
T) ao	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	agna (Water flea)): > 200 mg/l 3 h est Guideline 202				
T ac ic	oxicity to daphnia and other quatic invertebrates (Chron-toxicity)	:	NOEC (Daphnia r Exposure time: 2 ⁻	nagna (Water flea)): 30 mg/l I d				
G	amma-Butyrolactone:							
T	oxicity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 56 mg/l 5 h				
T a	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): > 500 mg/l 3 h				
T pl	oxicity to algae/aquatic ants	:	EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg/l 2 h				
			NOEC (Desmode Exposure time: 72	smus subspicatus (green algae)): 31.25 mg/l 2 h				

SAFETY DATA SHEET



Vers 12.4	sion	Revision Date: 04/17/2023	SD 13	9S Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017
	Toxicity	v to microorganisms	:	IC50: 4,518 mg/l Exposure time: 40) h
	Barium Toxicity	n sulfate: / to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te Remarks: Based o	(zebra fish)): > 100 mg/l 5 h est Guideline 203 on data from similar materials
	Toxicity aquatic	v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Remarks: Based o	agna (Water flea)): > 10 - 100 mg/l s h on data from similar materials
	Toxicity plants	/ to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te Remarks: Based o	chneriella subcapitata (green algae)): > 1 ? h est Guideline 201 on data from similar materials
				ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te Remarks: Based o	chneriella subcapitata (green algae)): > 100 ? h est Guideline 201 on data from similar materials
	Toxicity aquatic ic toxici	/ to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21 Remarks: Based o	nagna (Water flea)): > 1 mg/l d on data from similar materials
	Toxicity	<i>i</i> to microorganisms	:	EC50: > 600 mg/l Exposure time: 3 Method: OECD Te Remarks: Based o	h est Guideline 209 on data from similar materials
				NOEC: > 600 mg/ Exposure time: 3 Method: OECD Te Remarks: Based of	l h est Guideline 209 on data from similar materials
	Chrom	ium oxido:			
	Toxicity	to fish	:	LC50 (Danio rerio Exposure time: 96	(zebra fish)): > 10,000 mg/l s h
	Toxicity plants	∕ to algae/aquatic	:	EC50 (Desmodes mg/l Exposure time: 72 Method: OECD Te	mus subspicatus (green algae)): > 848.6 ? h est Guideline 201
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Danio reriented Exposure time: 30	o (zebra fish)): 1,000 mg/l) d
	Toxicity aquatic	v to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): > 0.02 mg/l d



Version 12.4	Revision Date: 04/17/2023	SE 13	OS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
ic tox	icity)		Remarks: No toxi	city at the limit of solubility.	
Toxic	Toxicity to microorganisms		EC50: > 10,000 n Exposure time: 3	ng/l h	
Diace	etone alcohol:				
Toxic	ity to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD T	ipes (Japanese medaka)): > 100 mg/l S h est Guideline 203	
Toxic aquat	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	agna (Water flea)): > 1,000 mg/l 3 h est Guideline 202	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Raphidoc 1,000 mg/l Exposure time: 72 Method: OECD T	elis subcapitata (freshwater green alga)): > 2 h est Guideline 201	
			NOEC (Raphidoc 1,000 mg/l Exposure time: 72 Method: OECD T	elis subcapitata (freshwater green alga)): > 2 h est Guideline 201	
Toxic aquat ic tox	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 2 [/] Method: OECD T	nagna (Water flea)): 100 mg/l l d est Guideline 211	
Toxic	Toxicity to microorganisms		 EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 		
Persi	stence and degradabil	ity			
Com	ponents:	-			
N-Me	thvl-2-pyrrolidone:				
Biode	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	odegradable. 73 % 3 d est Guideline 301C	
Isobu	utyl methyl ketone:				
Biode	egradability	:	Result: Readily bi Biodegradation: 8 Exposure time: 28 Method: OECD T	odegradable. 33 % 3 d est Guideline 301F	
Gam	ma-Butyrolactone:				
Biode	egradability	:	Result: Readily bi Biodegradation: Exposure time: 14	odegradable. 77 % I d	



Vers 12.4	ion	Revision Date: 04/17/2023	SE 13	DS Number: 43449-00048	Date of last issue: 10/28/2022 Date of first issue: 02/27/2017	
	Diacetone alcohol: Biodegradability		Method: OECD Test Guideline 301C			
			: Result: Readily biodegradable. Biodegradation: 98.51 % Exposure time: 28 d			
	Bioaccumulative potential					
	Comp	onents:				
	N-Metl Partitio octano	h yl-2-pyrrolidone: n coefficient: n- l/water	:	log Pow: -0.46 Method: OECD T	est Guideline 107	
	Isobut Partitio octano	yl methyl ketone: on coefficient: n- l/water	:	log Pow: 1.9		
	Gamm Partitio octano	a -Butyrolactone: n coefficient: n- l/water	:	log Pow: -0.566		
	Bariun	n sulfate:				
	Bioacc	umulation	:	Species: Lepomis Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): < 500	
	Partitio octano	n coefficient: n- l/water	:	log Pow: -1.03 Remarks: Calcula	ation	
	Chrom Bioacc	ium oxide: umulation	:	Species: Fish Bioconcentration	factor (BCF): 260 - 800	
	Diacet Partitio octano	one alcohol: on coefficient: n- l/water	:	log Pow: -0.09 Remarks: Calcula	ation	
	Mobili No dat	ty in soil a available				
	Other No dat	adverse effects a available				
SEC	TION 1	3. DISPOSAL CONSI	DEF	RATIONS		

Disposal methods

- Waste from residues : Dispose of in accordance with local regulations.
 - Do not dispose of waste into sewer.



Version	Revision Date:	SDS Number:	Date of last issue: 10/28/2022
12.4	04/17/2023	1343449-00048	Date of first issue: 02/27/2017
Contar	ninated packaging	: Empty containers handling site for r Empty containers Do not pressurize pose such contain of ignition. They r If not otherwise s	s should be taken to an approved waste ecycling or disposal. a retain residue and can be dangerous. e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. pecified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRIDG UN number Proper shipping name Class Packing group Labels	:	UN 1263 PAINT 3 III 3
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 1263 Paint 3 III Flammable Liquids 366 355
IMDG-Code UN number Proper shipping name	:	UN 1263 PAINT
Class Packing group Labels EmS Code Marine pollutant	:	3 III 3 F-E, <u>S-E</u> no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name	:	UN 1263 Paint
Class Packing group Labels ERG Code Marine pollutant Remarks	: : : : : : : : : : : : : : : : : : : :	CBL III NONE 128 no Above applies only to containers over 119 gallons or 450 li-



Version	Revision Date:	SDS Number:	Date of last issue: 10/28/2022
12.4	04/17/2023	1343449-00048	Date of first issue: 02/27/2017

ters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, then the product must be shipped as a flammable liquid.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Isobutyl methyl ketone	108-10-1	5000	29973

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards :	Flammable (gases Carcinogenicity Reproductive toxic Skin corrosion or i Serious eye dama Specific target org	s, aerosols, liquids, or city rritation ge or eye irritation an toxicity (single or r	solids) epeated exposure)
SARA 313 :	The following com tablished by SARA	ponents are subject to A Title III, Section 313	o reporting levels es :
	N-Methyl-2- pyrrolidone	872-50-4	>= 30 - < 50 %
	lsobutyl methyl ketone	108-10-1	>= 10 - < 20 %
	Chromium oxide	1308-38-9	>= 5 - < 10 %
Volatile organic compounds (VOC) content	VOC content: 822 Remarks: less exe	.39 g/l empt	
	VOC content: 822 Remarks: as pack	.15 g/l aged	
US State Regulations			

Pennsylvania Right To Know



Version 12.4	Revision Date: 04/17/2023	SDS Number: 1343449-00048	Date of last issue Date of first issue	e: 10/28/2022 e: 02/27/2017
	N-Methyl-2-pyrro Isobutyl methyl k Gamma-Butyrola Fluoropolymer Poly(bis(p-chloro Barium sulfate Chromium oxide Diacetone alcoho 1,2,4-Trimethylbo Zinc oxide Butan-2-ol Butan-1-ol Cumene Ethylbenzene Xylene	lidone etone ictone phenyl) sulfone/4,4'-su ol enzene	lfonyldiphenol)	872-50-4 108-10-1 96-48-0 Trade secret 25608-63-3 7727-43-7 1308-38-9 123-42-2 95-63-6 1314-13-2 78-92-2 71-36-3 98-82-8 100-41-4 1330-20-7
Califo	ornia Prop. 65			

WARNING: This product can expose you to chemicals including Isobutyl methyl ketone, which is/are known to the State of California to cause cancer, and

N-Methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Isobutyl methyl ketone Chromium oxide	108-10-1 1308-38-9
Diacetone alcohol	123-42-2
California Permissible Exposure Limits for Chemical Contaminants	

N-Methyl-2-pyrrolidone	872-50-4
Isobutyl methyl ketone	108-10-1
Barium sulfate	7727-43-7
Chromium oxide	1308-38-9
Diacetone alcohol	123-42-2

SECTION 16. OTHER INFORMATION

Further information





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For further information contact the local Chemours office or nominated distributors.

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded
		Colling value not be exceeded at any time
	•	Cening value not be exceeded at any time.
USHA Z-1 / TWA	•	8-nour time weighted average
OSHA Z-2 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA
US WEEL / STEL	:	Short-Term TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -



Version	Revision Date:	SDS Number:	Date of last issue: 10/28/2022
12.4	04/17/2023	1343449-00048	Date of first issue: 02/27/2017

International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety	eChem Portal search results and European Chemicals Agen-
Data Sheet	cy, http://echa.europa.eu/

Revision Date

: 04/17/2023

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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