SAFETY DATA SHEET

1. Identification

Ford

Motorcraft.

Product identifier	Spray-On Paint Sealant	
Other means of identification FIR No.	510572	
Recommended use	Spray-on paint sealant	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Company Name	Ford Motor Company	
Address	Attention: SDS Information, P.O. Box 1899	
	Dearborn, Michigan 48121	
	USA	
Telephone	1-800-392-3673	
SDS Information	1-800-448-2063 (USA and Canada)	
	fordsds.com	
Emergency telephone numbers		
	Poison Control Center: USA and Canada: 1-800-959-3673	
	INFOTRAC (Transportation): USA and Canada 1-800-535-5053	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



	HNOC
Signal word	Danger
Hazard statement	Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse.
Storage	Not available.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Can cause severe eye irritation. May be irritating to the skin.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-BUTOXYETHANOL		111-76-2	1 - < 2

Chemical name	Common name and synonyms	CAS number	%
Siloxanes and Silicones, di-Me, [[[3-[(2-aminoethyl)amino]propyl]d methoxysilyl]oxy]-terminated	i	71750-80-6	1 - < 3
PROPAN-2-OL		67-63-0	0.8 - < 3
Distillates (petroleum), hydrotreated middle		64742-46-7	5.55

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions,	Avoid contact with eyes, skin, and clothing. Do not breathe mist/vapors. Ensure adequate

ventilation. Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. protective equipment and emergency procedures Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS. Methods and materials for Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product containment and cleaning up recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. **Environmental precautions** Avoid discharge into drains, water courses or onto the ground. 7. Handling and storage Precautions for safe handling Avoid contact with eyes, skin, and clothing. Do not breathe mist/vapors. Avoid prolonged exposure. Provide adequate ventilation. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Wear appropriate personal protective equipment. For personal protection, see Section 8 of the SDS.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
2-BUTOXYETHANOL (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	PEL	5 mg/m3	Mist.
PROPAN-2-OL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Value	es (TLV)		
Components	Туре	Value	Form
2-BUTOXYETHANOL (CAS 111-76-2)	TWA	20 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	TWA	5 mg/m3	Inhalable fraction.
PROPAN-2-OL (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
NIOSH. Immediately Dangerous to	o Life or Health (IDLH) Values	s. as amended	
Components	Туре	Value	
2-BUTOXYETHANOL (CAS 111-76-2)	IDLH	1.1 %	
		700 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	IDLH	2500 mg/m3	
PROPAN-2-OL (CAS 67-63-0)	IDLH	2 %	
		2000 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards Recommended	d Exposure Limits (REL)	
Components	Туре	Value	Form
2-BUTOXYETHANOL (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
	STEL	1225 mg/m3	
PROPAN-2-OL (CAS 67-63-0)			
		500 ppm	
	TWA	500 ppm 980 mg/m3	

Components	Value	Determinant	Specimen	Sampling Time
2-BUTOXYETHANOL (CA 111-76-2)	S200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
PROPAN-2-OL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
* - For sampling details, pl	ease see the source	document.		
xposure guidelines				
US - California OELs: Sk	in designation			
2-BUTOXYETHANOL US - Minnesota Haz Sub			absorbed throu	igh the skin.
2-BUTOXYETHANOL US - Tennessee OELs: S		Skin de	esignation applie	9S.
2-BUTOXYETHANOL US NIOSH Pocket Guide	· · ·		absorbed throu	ıgh the skin.
2-BUTOXYETHANOL US. OSHA Table Z-1 Lim	· /		e absorbed throu 000)	ıgh the skin.
2-BUTOXYETHANOL	_ (CAS 111-76-2)	Can be	e absorbed throu	igh the skin.
ppropriate engineering ontrols	If user operation exhaust ventilati	s generate a vapor, d	ust and/or mist, ng controls to co	ations below the exposure limits/guidelines. use process enclosure, appropriate local ontrol airborne levels below the
ndividual protection measur	res, such as persona	al protective equipm	ent	
Eye/face protection	Wear safety glas	sses with side shields	(or goggles).	
Skin protection				
Hand protection	The choice of ar	n appropriate glove do	es not only depe	nen the potential exists for skin exposure. end on its material but also on other quality er. Nitrile gloves are recommended.
Other	Wear appropriat	e chemical resistant c	lothing if applica	able.
Respiratory protection	protect worker h maintenance sh	ealth, an approved rea	spirator must be with the require	ntrations to a level which is adequate to worn. Respirator selection, use and ements of OSHA Respiratory Protection d CSA Z94.4.
Thermal hazards	Wear appropriat	e thermal protective c	lothing, when ne	ecessary.
eneral hygiene onsiderations				ch as washing after handling the material y wash work clothing and protective

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aqueous solution.
Color	Grey.
Odor	Slight.
Odor threshold	Not available.
рН	> 4 - < 6
Melting point/freezing point	32 °F (0 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	>212.0 °F (>100.0 °C) Closed Cup
Evaporation rate Flammability (solid, gas)	Not available. Not applicable.

Upper/lower flammability or explosive limits

oppennower numinability of exp	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.98 (Water=1)
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Similar to water
Other information	
VOC	4.4
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

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Inhalation	Based on available data, the classification criteria a harmful.	re not met. Prolonged inhalation may be
Skin contact	Based on available data, the classification criteria a	re not met.
	2-Butoxy ethanol may be absorbed through the skin prolonged. These effects have not been observed in	
	May be irritating to the skin.	
Eye contact	Based on available data, the classification criteria a	re not met. Can cause severe eye irritation.
Ingestion	Based on available data, the classification criteria a	re not met. May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Can cause severe eye irritation. Mild skin irritation.	
Information on toxicological ef	fects	
Acute toxicity		
Components	Species	Calculated/Test Results
2-BUTOXYETHANOL (CAS 111-	76-2)	
Acute		
Dermal		
LD50	Rabbit	400 mg/kg
Inhalation		
LC50	Mouse	700 ppm, 7 Hours
	Rat	486 ppm, 4 Hours
		450 ppm, 4 Hours

OralGuinea pig1.2 g/kgLD50Guinea pig1.2 g/kgRabbit3.2 g/kgRabbit3.2 g/kgRat660 mg/kgLD50Rat650 mg/kgDther130 mg/kgLD50Rabbit280 mg/kgRat550 mg/kgBabbit280 mg/kgRat550 mg/kgDther340 mg/kgLD50Rabbit280 mg/kgPCPAN-2-OL (CAS 67-63-0)797 mg/kgDomal1500 mg/kgCoral1500 mg/kgLD50Rabbit2800 mg/kgOral1500 mg/kgLD50Rabbit3600 mg/kgOral1500 mg/kgLD50Rabbit5.03 g/kgGuinea5.03 g/kgGuinea5.03 g/kgCoral5.03 g/kgLD50Mouse4.17 mg/kgLD50Rat5.03 g/kgSerious og damagoryoCan cause severe sej initiation.Freepiratory sensitizationThis product is not expected to cause skin sensitizationSerious og damagoryoThis product is not expected to cause skin sensitizationGeriousgenicityNo data assiliate is not expected to cause skin sensitizationShi sensitizationThis product is not expected to cause skin sensitizationGorn Coll mutagolicityNo data sanaliate is not expected to cause skin sensitizationShi sensitizationThis product is not expected to cause reproductive or developmental effects.Specific target organ toxicityThis product is not expected to cause rep	LD50Guine pig1.2 g/kgNoise1.2 g/kgRabbit3.2 g/kgRabbit3.2 g/kgBabbit3.2 g/kgLD50Rabbit3.0 mg/kgAbbit200 mg/kgRabbit200 mg/kgBabbit200 mg/kgRabbit200 mg/kgRabbit200 mg/kgRabbit200 mg/kgRabbit200 mg/kgRabbit200 mg/kgPCOPAN-2-OL (CAS 67-63-0)3600 mg/kgPCOPANRabbit3600 mg/kgOrai4797 mg/kgLD50Mouse477 mg/kgRabit3600 mg/kgLD50Mouse477 mg/kgLD50Mouse477 mg/kgPCOPAN1990 mg/kgPCOPANNoi case severe ey initationRespiratory or skin sensitizationNoi case severe ey einitationRespiratory or skin sensitizationNoi case severe ey einitationRespiratory or skin sensitizationNoi case severe ey einitationR	Components	Species	Calculated/Test Results
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		Aspiration hazard	Not an aspiration hazard.	

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. 12. Ecological information The product is not classified as environmentally hazardous. However, this does not exclude the Ecotoxicity possibility that large or frequent spills can have a harmful or damaging effect on the environment. Persistence and degradability No data is available on the degradability of any ingredients in the mixture. **Bioaccumulative potential** Partition coefficient n-octanol / water (log Kow) 2-BUTOXYETHANOL 0.83 PROPAN-2-OL 0.05 Mobility in soil No data available.

13. Disposal considerations

Other adverse effects

-	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Toxic Substances Control Act (TSCA)

TSCA Section 12/h) Export Notificatio	n (40 CFR 707	Subpt D)
13CA Section 12(L			, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-BUTOXYETHANOL (CAS 111-76-2)	Listed.
PROPAN-2-OL (CAS 67-63-0)	Listed.
SARA 304 Emergency release notification	
Not regulated.	
OSHA Specifically Regulated Substances (29 CFR	1910.1001-1053)
Not listed.	

Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed.					
SARA 311/312 Hazardous chemical	Yes				
Classified hazard categories	Specific target organ to	xicity (single or repea	ted exposure)		
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.		
PROPAN-2-OL		67-63-0	0.8 - < 3		
Other federal regulations					
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List					
Not regulated.					
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)					
Not regulated.					
Safe Drinking Water Act (SDWA)	Contains component(s)) regulated under the	Safe Drinking Water Act.		
International Inventories					

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. Other information, including date of preparation or last revision

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Issue date	09-08-2023
Version	01
HMIS [®] ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Preparation Information and Disclaimer	This document was prepared by FCSD-Toxicology, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer packaged product labels, the SDS should be followed.
Part number(s)	ZC-61, ZC-61-A