

# SAFETY DATA SHEET

### 1. Identification

Product identifier	Gasket Maker
Other means of identification	
FIR No.	014716
Recommended use	Flexible, anaerobic gasketing material
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/I	Distributor information
Supplier	
Company Name	Ford Motor Company
Address	Attention: MSDS Information, P.O. Box 1899
	Dearborn, Michigan 48121
<b>-</b>	USA
Telephone	1-800-392-3673
MSDS Information	1-800-448-2063
	msds@brownart.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	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		





Signal word	Danger
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. 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. Take off contaminated clothing and wash before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

nformation None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-hydroxyethyl methacrylate		868-77-9	3 - < 5
.ALPHA.,.ALPHADIMETHYLBENZ YL HYDROPEROXIDE		80-15-9	1 - < 3
ACRYLIC ACID		79-10-7	< 1

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	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. 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. Wash contaminated clothing before reuse.
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 measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	This product is miscible in water.	
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product 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 release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.	
7. Handling and storage		
Precautions for safe handling	Do not breathe mist or vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).	
8. Exposure controls/personal protection		

# Occupational exposure limits

Components	: Values Type	Value
ACRYLIC ACID (CAS 79-10-7)	TWA	2 ppm
US. NIOSH: Pocket Guide t	o Chemical Hazards	
Components	Туре	Value
ACRYLIC ACID (CAS 79-10-7)	TWA	6 mg/m3
		2 ppm
US. Workplace Environmer	ntal Exposure Level (WEEL	Guides
Components	Туре	Value
.ALPHA.,.ALPHADIMETH YLBENZYL	TWA	6 mg/m3
HYDROPEROXIDE (CAS 80-15-9)		
		1 ppm
ological limit values	No biological exposure lim	its noted for the ingredient(s).
posure guidelines		
US - California OELs: Skin	designation	
ACRYLIC ACID (CAS 79		Can be absorbed through the skin.
US - Tennessee OELs: Skir	•	
ACRYLIC ACID (CAS 79 US ACGIH Threshold Limit		Can be absorbed through the skin.
ACRYLIC ACID (CAS 79 US NIOSH Pocket Guide to		Can be absorbed through the skin. signation
ACRYLIC ACID (CAS 79 US WEEL Guides: Skin des		Can be absorbed through the skin.
.ALPHA.,.ALPHADIME HYDROPEROXIDE (CA		Can be absorbed through the skin.
propriate engineering htrols	user operations generate	o control airborne concentrations below the exposure limits/guidelines a vapor, dust and/or mist, use process enclosure, local exhaust ering controls to control airborne levels below the recommended

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Neoprene gloves are recommended. Nitrile gloves are recommended.
Other	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant clothing if applicable.
Respiratory protection	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
eneral hygiene onsiderations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Red.
Odor	Mild.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 302 °F (> 150 °C)
Flash point	> 203.0 °F (> 95.0 °C) ASTM D93
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 5 mm Hg
Vapor pressure temp.	69.8 °F (21 °C)
Vapor density	> 1 (AIR=1)
Relative density	1.08 - 1.18
Relative density temperature	39.2 °F (4 °C)
Solubility(ies)	
Solubility (water)	SLIGHT
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information VOC (Weight %) 1.5 % CAM310

# 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	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Amines.
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

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

#### Information on toxicological effects

Acute	tox	icity

May cause an allergic skin reaction.

Components	Species	Calculated/Test Results
.ALPHA.,.ALPHADIMETHYLBE	ENZYL HYDROPEROXIDE (CAS 80-15-9)	
Acute		
Dermal		
LD50	Rat	0.5 ml/kg
Inhalation		
LC50	Mouse	200 mg/l, 4 Hours
2-hydroxyethyl methacrylate (CA	S 868-77-9)	
Acute		
Oral		
LD50	Mouse	3275 mg/kg
		5.1 ml/kg
	Rat	5050 mg/kg
ACRYLIC ACID (CAS 79-10-7)		
Acute		
Inhalation		
LC50	Rat	1200 mg/l, 4 Hours
Oral		
LD50	Mouse	2400 mg/kg
	Rat	33.5 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization	on	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
	Evaluation of Carcinogenicity	
	-10-7) 3 Not class d Substances (29 CFR 1910.1001-1050)	sifiable as to carcinogenicity to humans.
Not listed. Reproductive toxicity	This product is not expected to cause repr	oductive or developmental effects
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prol tract.	onged or repeated exposure. Eyes. Skin. Respiratory
Aspiration hazard	Not an aspiration hazard.	
Chronic effects		longed or repeated exposure. Prolonged inhalation may
12. Ecological information	1	
Ecotoxicity	Harmful to aquatic life with long lasting effe	ects.
Ecotoxicity		
Components	Species	Calculated/Test Results
2-hydroxyethyl methacrylate (	CAS 868-77-9)	
Aquatic		
Fish	LC50 Fathead minnow (Pimepha	les promelas) 213 - 242 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of	f this product.
Bioaccumulative potential		
Partition coefficient n-octar		
2-hydroxyethyl methacrylate ACRYLIC ACID	0.47 0.35	
Mobility in soil	No data available.	
Other adverse effects		.g. ozone depletion, photochemical ozone creation ning potential) are expected from this component.
13. Disposal consideration	ns	
Disposal instructions		
Local disposal regulations	Dispose in accordance with all applicable r	regulations.
Hazardous waste code	The waste code should be assigned in disc disposal company.	cussion between the user, the producer and the waste
Waste from residues / unused products		tions. Empty containers or liners may retain some tainer must be disposed of in a safe manner (see:
Contaminated packaging		oproved waste handling site for recycling or disposal. uct residue, follow label warnings even after container is
14. Transport information		
DOT		
<unspecified></unspecified>		

Not regulated as dangerous goods.

### ΙΑΤΑ

### <Unspecified>

Not regulated as dangerous goods.

<unspecified></unspecified>				
Not regulated as dangerous go	oods.			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.			
15. Regulatory informatior				
•		udava Ohaniaalii aa dafii		
US federal regulations	Standard, 29 CFR 1910		ed by the OSHA Hazard Co	ommunication
TSCA Section 12(b) Export N	Notification (40 CFR 707	', Subpt. D)		
Not regulated.				
CERCLA Hazardous Substan				
.ALPHA.,.ALPHADIMET HYDROPEROXIDE (CAS		Listed.		
ACRYLIC ACID (CAS 79-		Listed.		
SARA 304 Emergency releas				
Not regulated. OSHA Specifically Regulated	d Substances (29 CFR <sup>,</sup>	1910.1001-1050)		
Not listed.		,		
Superfund Amendments and Rea	authorization Act of 19	36 (SARA)		
Hazard categories	Immediate Hazard - Ye			
	Delayed Hazard - Yes			
	Fire Hazard - No Pressure Hazard - No			
	Reactivity Hazard - No			
SARA 302 Extremely hazard	-			
Not listed.				
SARA 311/312 Hazardous	No			
chemical				
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
.ALPHA.,.ALPHADIMET	HYLBENZYL	80-15-9	1 - < 3	
HYDROPEROXIDE ACRYLIC ACID		79-10-7	< 1	
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Pol	utants (HAPs) List		
ACRYLIC ACID (CAS 79-		( )		
Clean Air Act (CAA) Section		ase Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. California Controlled Su	bstances. CA Departme	ent of Justice (Californi	a Health and Safety Code	Section 11100)
Not listed.		,	· · · · · · · · · · · · · · · · · · ·	<b>,</b>
US. Massachusetts RTK - Su	ibstance List			
.ALPHA.,.ALPHADIMET ACRYLIC ACID (CAS 79-		ROXIDE (CAS 80-15-9)		
US. New Jersey Worker and		now Act		
.ALPHA.,.ALPHADIMET	HYLBENZYL HYDROPE			
ACRYLIC ACID (CAS 79- US. Pennsylvania Worker an		Knowlaw		
.ALPHA.,.ALPHADIMET				
ACRYLIC ACID (CAS 79- US. Rhode Island RTK				
.ALPHA.,.ALPHADIMET	HILBENZIL HIDROPE	RUXIDE (CAS 80-15-9)		

IMDG

#### ACRYLIC ACID (CAS 79-10-7)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### 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

Issue date	05-16-2015
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)	TA-16