

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier Professional Strength Carpet & Upholstery Cleaner** 

Other means of identification

171146 FIR No.

Recommended use Carpet and upholstery cleaner

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

**Company Name** Ford Motor Company

**Address** Attention: MSDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

1-800-392-3673 **Telephone 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 Gases under pressure Liquefied gas **Health hazards** Skin corrosion/irritation Category 2 Serious eve damage/eve irritation Category 2 **Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye

irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear

eye/face protection.

Response If on skin: Wash with plenty of water. If skin irritation 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. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

**Storage** Protect from sunlight. Store in a well-ventilated place.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

May cause irritation of respiratory tract. Vapors have a narcotic effect and may cause headache,

fatigue, dizziness and nausea. May be harmful if swallowed. May be harmful if absorbed through

skin.

Supplemental information None.

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# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Petroleum gases, liquefied		68476-85-7	5 - < 10
MORPHOLINE		110-91-8	1 - < 3
disodium metasilicate		6834-92-0	< 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. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

No specific first aid measures noted.

Rinse mouth. In the unlikely event of swallowing contact a physician or poison control center. Do Ingestion

not induce vomiting.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

vision. Skin irritation. May cause redness and pain.

protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed. Upon decomposition, this product emits

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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# 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. Isolate area until gas has dispersed. 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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 a cool, dry place out of direct sunlight. Secure cylinders in an upright position at all times, close all valves when not in use. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

1000 ppm

## 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits	for Air Contaminants	i (29 CFR 1910.1000)
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Components	Туре	Value	
MORPHOLINE (CAS 110-91-8)	PEL	70 mg/m3	
•		20 ppm	
Petroleum gases, liquefied (CAS 68476-85-7)	PEL	1800 mg/m3	
		1000 ppm	
<b>US. ACGIH Threshold Limit Value</b>	s		
Components	Туре	Value	
MORPHOLINE (CAS 110-91-8)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
MORPHOLINE (CAS 110-91-8)	STEL	105 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
Petroleum gases, liquefied (CAS 68476-85-7)	TWA	1800 mg/m3	
'			

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

MORPHOLINE (CAS 110-91-8)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

MORPHOLINE (CAS 110-91-8) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

MORPHOLINE (CAS 110-91-8)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

MORPHOLINE (CAS 110-91-8)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

MORPHOLINE (CAS 110-91-8)

Can be absorbed through the skin.

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## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

MORPHOLINE (CAS 110-91-8)

Can be absorbed through the skin.

Appropriate engineering

controls

Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

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

Eye/face protection 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. Nitrile gloves are

recommended. Neoprene 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.

General hygiene considerations

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.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Yellow.
Odor Soapy.

Odor threshold Not available.

**pH** 9.2 - 10.8 ASTM D1293

pH concentrationMelting point/freezing pointInitial boiling point and boilingNot available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.005

Relative density temperature 39.2 °F (4 °C)

Solubility(ies)

Solubility (water) COMPLETE

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

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Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

< 14 cSt Kinematic viscosity

Kinematic viscosity

temperature

104 °F (40 °C)

4.8 % w/w CAM310 VOC (Weight %)

# 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 Hazardous polymerization does not occur.

reactions

Conditions to avoid Heat. Contact with incompatible materials.

Strong mineral acids. Strong oxidizing agents. Aluminum. Zinc. Chlorine. Incompatible materials

Hazardous decomposition Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons. products

## 11. Toxicological information

Information on likely routes of exposure

May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause Inhalation

headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful.

May be harmful in contact with skin. Causes skin irritation. Skin contact

Causes serious eye irritation. Eye contact

May be harmful if swallowed. May cause discomfort if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

**Acute toxicity** 

Components	Species	Calculated/Test Results
disodium metasilicate (CAS 683	4-92-0)	
Acute		
Oral		
LD50	Mouse	2400 mg/kg
	Rat	1280 mg/kg
MORPHOLINE (CAS 110-91-8)		
Acute		
Dermal		
LD50	Rabbit	0.5 ml/kg
Oral		
LD50	Guinea pig	0.09 g/kg
	Mouse	720 mg/kg
	Rat	1.05 g/kg
Skin corrosion/irritation	Causes skin irritation.	

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

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Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

MORPHOLINE (CAS 110-91-8) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**Ecotoxicity** 

Components **Species** Calculated/Test Results disodium metasilicate (CAS 6834-92-0) Aquatic Crustacea EC50 Water flea (Ceriodaphnia dubia) 0.28 - 0.57 mg/l, 48 hours Fish LC50 Western mosquitofish (Gambusia affinis) 1800 mg/l, 96 hours MORPHOLINE (CAS 110-91-8) Aquatic LC50 Fish Zebra danio (Danio rerio) > 1 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

MORPHOLINE -0.86

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

<Unspecified>

UN number UN1950 UN proper shipping name Aerosols

Transport hazard class(es)

Class 2.2 Subsidiary risk -

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Label(s) 2.2

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

#### **IATA**

<Unspecified>

UN number UN1950 UN proper shipping name Aerosols

Transport hazard class(es)

Class 2.2 Subsidiary risk -Label(s) 2.2

Packing group Not applicable.

Environmental hazards No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Forbidden.

aircraft

Cargo aircraft only Forbidden.

## **IMDG**

<Unspecified>

UN number UN1950 UN proper shipping name Aerosols

Transport hazard class(es)

Class 2.2 Subsidiary risk -Label(s) 2.2

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

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

the IBC Code

## DOT



#### IATA; IMDG

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# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

MORPHOLINE (CAS 110-91-8) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

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

Not regulated.

(SDWA)

**US** state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

MORPHOLINE (CAS 110-91-8)

**US. Massachusetts RTK - Substance List** 

MORPHOLINE (CAS 110-91-8)

Petroleum gases, liquefied (CAS 68476-85-7)

**US. New Jersey Worker and Community Right-to-Know Act** 

MORPHOLINE (CAS 110-91-8)

Petroleum gases, liquefied (CAS 68476-85-7)

US. Pennsylvania Worker and Community Right-to-Know Law

MORPHOLINE (CAS 110-91-8)

Petroleum gases, liquefied (CAS 68476-85-7)

**US. Rhode Island RTK** 

Not regulated.

**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

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HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 1

NFPA ratings Health: 2

Flammability: 0 Instability: 1

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## **Preparation Information and Disclaimer**

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. 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-54

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