

<b>ASHLAND®</b>		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : NAPA® MAC'S SILICONE SPRAY  
SILICONE SPRAY

### Recommended use of the chemical and restrictions on use

<b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America  EHS Customer Requests@ashland.com	<b>Emergency telephone number</b> 1-800-ASHLAND (1-800-274-5263)  <b>Regulatory Information Number</b> 1-800-325-3751  <b>Product Information</b> 614-790-3333
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable aerosols : Category 1  
  
Eye irritation : Category 2A  
  
Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

### GHS Label element

Hazard pictograms :




Signal Word : Danger

Hazard Statements : Extremely flammable aerosol.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

<b>ASHLAND®</b>		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear eye protection/ face protection.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	51.17
ACETONE	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2A; H319	41.86

<b>ASHLAND®</b>		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

		STOT SE 3; H336	
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	4.20
n-HEPTANE	142-82-5	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304	2.04

#### SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Move to fresh air. If unconscious place in recovery position and seek medical advice. Consult a physician after significant exposure.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
If swallowed	: Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs

<b>ASHLAND®</b>		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

may initiate cardiac arrhythmias in persons exposed to this material.

This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.  
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
loss of appetite  
irregular heartbeat  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

Notes to physician : No hazards which require special first aid measures.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO2)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Aldehydes  
carbon dioxide and carbon monoxide  
organic compounds  
formaldehyde  
Hydrocarbons  
silicon oxides
- Specific extinguishing methods :  
  
Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must

<b>ASHLAND®</b>		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid breathing dust.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Other information : Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Open drum carefully as content may be under pressure.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.  
Container may be opened only under exhaust ventilation hood.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

<b>ASHLAND®</b>		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
No smoking.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	TWA	500 ppm	OSHA_TRANS
		TWA	300 ppm	ACGIH
		TWA	2,000 mg/m3	OSHA_TRANS
		TWA	1,370 mg/m3	ACGIH
ACETONE	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		REL	250 ppm 590 mg/m3	NIOSH/GUIDE
		PEL	1,000 ppm 2,400 mg/m3	OSHA_TRANS
		TWA	250 ppm	ACGIHLIS_P
		STEL	500 ppm	ACGIHLIS_P
		TWA	750 ppm 1,800 mg/m3	Z1A
		STEL	1,000 ppm 2,400 mg/m3	Z1A
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		REL	5,000 ppm 9,000 mg/m3	NIOSH/GUIDE
		STEL	30,000 ppm 54,000 mg/m3	NIOSH/GUIDE
		PEL	5,000 ppm 9,000 mg/m3	OSHA_TRANS
n-HEPTANE	142-82-5	REL	85 ppm 350 mg/m3	NIOSH/GUIDE
		Ceil_Time	440 ppm 1,800 mg/m3	NIOSH/GUIDE
		PEL	500 ppm	OSHA_TRANS

<b>ASHLAND®</b>		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

			2,000 mg/m3	NS
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
ACETONE	67-64-1	acetone	Urine	Sampling time: End of shift.	50 mg/l	
Remarks:	Nonspecific					

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

**Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.  
In the case of dust or aerosol formation use respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**  
**Material** : nitrile rubber

**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection** : Wear as appropriate:  
impervious clothing  
Safety shoes  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment)

<b>ASHLAND®</b>		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Physical state : aerosol

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 133 °F / 56 °C  
(1,013.333333 hPa)  
Calculated Phase Transition Liquid/Gas Value for Component

Flash point : -4 °F / -20 °C  
Calculated Flash Point Value for Component

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 12.8 %(V)  
GLP: Calculated Explosive Limit

Lower explosion limit : 2.6 %(V)  
GLP: Calculated Explosive Limit

Vapour pressure : 308 hPa (25 °C)  
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 1.078 g/cm<sup>3</sup> (25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available



<b>ASHLAND®</b>		Page: 9
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids  
alkalis  
Amines  
Ammonia  
halogens  
peroxides  
Reducing agents  
Strong oxidizing agents

Hazardous decomposition products  
Aldehydes  
carbon dioxide and carbon monoxide  
formaldehyde  
Hydrocarbons  
organic compounds  
silicon oxides

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

### Components:

<b>ASHLAND®</b>		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

**SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:**

Acute oral toxicity : LD 50 (Rat): > 8,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 3400 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rat): > 4,000 mg/kg

**ACETONE:**

Acute oral toxicity : LD 50 (Rat, female): 5,800 mg/kg

Acute inhalation toxicity : LC 50 (Rat, female): 76 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD 50 (Rabbit): > 7,426 mg/kg

**n-HEPTANE:**

Acute oral toxicity : LD 50 (Rat): Expected > 5,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC 50 (Rat, male and female): > 29.29 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): Expected > 2,000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: Information given is based on data obtained from similar substances.

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation in susceptible persons.

**Components:**

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to skin

**ACETONE:**

Result: Mildly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

**CARBON DIOXIDE:**

<b>ASHLAND®</b>		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

Result: Not irritating to skin

n-HEPTANE:

Result: Irritating to skin

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

#### **Components:**

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to eyes

ACETONE:

Result: Irritating to eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

n-HEPTANE:

Result: Mildly irritating to eyes

#### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### **Components:**

n-HEPTANE:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

n-HEPTANE:

Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro

Test species: rat hepatocytes

Method: OECD Test Guideline 473

Result: negative

: Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **Components:**

<b>ASHLAND®</b>		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

**ACETONE:**

Exposure routes: Inhalation

Target Organs: Nervous system

Assessment: May cause drowsiness or dizziness.

**n-HEPTANE:**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

May be fatal if swallowed and enters airways.

**ACETONE:**

May be harmful if swallowed and enters airways.

**n-HEPTANE:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

**Carcinogenicity:**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**ACETONE:**

Toxicity to fish

: LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 4,740 - 6,330 mg/l  
Exposure time: 96 h  
Test Type: static test

<b>ASHLAND®</b>		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

LC 50 (Fathead minnow (*Pimephales promelas*)): 8,733 - 9,482 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to algae : NOEC (*Microcystis aeruginosa*): 530 mg/l  
 Exposure time: 8 d  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 2,112 mg/l  
 Exposure time: 28 d  
 Test Type: flow-through test

**n-HEPTANE:**

Toxicity to daphnia and other aquatic invertebrates : EC 50 (*Daphnia magna*): 1.5 mg/l  
 Exposure time: 48 h  
 Test Type: static test

LC 50 (*Mysidopsis bahia* (opossum shrimp)): 0.1 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (*Daphnia magna*): 1 mg/l  
 Exposure time: 21 d  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 211  
 Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment  
 Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

**ACETONE:**

Biodegradability : Result: Readily biodegradable  
 Biodegradation: 90.9 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

**n-HEPTANE:**

Biodegradability : Result: Readily biodegradable

**Bioaccumulative potential**

**ACETONE:**

Partition coefficient: n-octanol/water : log Pow: -0.24

<b>ASHLAND®</b>		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

n-HEPTANE:  
 Partition coefficient: n- : log Pow: 4.66  
 octanol/water

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological : An environmental hazard cannot be excluded in the event of  
 information unprofessional handling or disposal., Toxic to aquatic life with  
 long lasting effects.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water  
 courses or the soil.  
 Do not contaminate ponds, waterways or ditches with  
 chemical or used container.  
 Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and  
 federal regulations.

Contaminated packaging : Empty remaining contents.  
 Empty containers should be taken to an approved waste  
 handling site for recycling or disposal.  
 Do not re-use empty containers.  
 Do not burn, or use a cutting torch on, the empty drum.

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**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

**U.S. DOT - ROAD**

ORM-D, CONSUMER COMMODITY	ORM

**U.S. DOT - RAIL**

ORM-D, CONSUMER COMMODITY	ORM
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<b>ASHLAND®</b>		Page: 15
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

#### U.S. DOT - INLAND WATERWAYS

ORM-D, CONSUMER COMMODITY	ORM

#### TRANSPORT CANADA - ROAD

UN 1950 AEROSOLS	2.1

#### TRANSPORT CANADA - RAIL

UN 1950 AEROSOLS	2.1

#### TRANSPORT CANADA - INLAND WATERWAYS

UN 1950 AEROSOLS	2.1

#### INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1950 AEROSOLS	2.1	MARINE POLLUTANT:(ALIPHATIC PETROLEUM NAPHTHA)LIMITED QUANTITY

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1950 Aerosols, flammable	2.1

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1950 Aerosols, flammable	2.1

#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 1950 AEROSOLS	2

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

<b>ASHLAND®</b>		Page: 16
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ACETONE	67-64-1	5000	11944.177691

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

**SARA 313 Component(s)** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Pennsylvania Right To Know

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	50.00 - 70.00 %
ACETONE	67-64-1	30.00 - 50.00 %
CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
n-HEPTANE	142-82-5	1.00 - 5.00 %

#### New Jersey Right To Know

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	50.00 - 70.00 %
ACETONE	67-64-1	30.00 - 50.00 %
CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
DIMETHYL SILICONES AND SILOXANES	63148-62-9	1.00 - 5.00 %
n-HEPTANE	142-82-5	1.00 - 5.00 %

#### California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.  
BENZENE 71-43-2

ETHYL BENZENE 100-41-4

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
TOLUENE 108-88-3



<b>ASHLAND®</b>		Page: 17
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

BENZENE

71-43-2

**The components of this product are reported in the following inventories:**

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AUSTR	: On the inventory, or in compliance with the inventory
NZIOC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECL	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Further information**

Revision Date: 05/22/2015

NFPA:	HMIS III:						
<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td><b>HEALTH</b></td><td><b>2</b></td></tr> <tr> <td><b>FLAMMABILITY</b></td><td><b>3</b></td></tr> <tr> <td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>2</b>	<b>FLAMMABILITY</b>	<b>3</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>2</b>						
<b>FLAMMABILITY</b>	<b>3</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

**NFPA Flammable and Combustible Liquids Classification**

Not applicable

**Full text of H-Statements referred to under sections 2 and 3.**

<b>ASHLAND®</b>		Page: 18
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

<b>ASHLAND®</b>		Page: 19
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 6/2/2015
		SDS Number: R0254499
NAPA® MAC'S SILICONE SPRAY SILICONE SPRAY		Version: 1.0
833347		

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System