

Revision Date: 02/07/2013

Print Date: 5/1/2013

MSDS Number: R0253115

Version: 4.1

NAPA® MAC'S NON-CHLOR BRAKE PARTS CLEANER NM4800

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland Regulatory Information Number 1-800-325-3751 P.O. Box 2219 Telephone 614-790-3333

Columbus, OH 43216 Emergency telephone number 1-800-ASHLAND (1-800-274-

5263)

Product name NAPA® MAC'S NON-CHLOR BRAKE PARTS CLEANER

Product code NM4800

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Appearance: aerosol

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. HARMFUL IF SWALLOWED. MAY CAUSE BLINDNESS. MAY BE HARMFUL IF INHALED.

#### **Potential Health Effects**

#### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

#### Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

## Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.



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## **Ingestion**

Swallowing this material may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

#### Inhalation

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

## **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, Upper respiratory tract, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, pancreas, Heart, blood-forming system, auditory system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

#### **Symptoms**

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), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, loss of appetite, muscle cramps, pain in the abdomen and lower back, Blurred vision, Shortness of breath, Lack of coordination, confusion, irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), visual impairment (including blindness), coma

## **Target Organs**

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., This material (or a component) shortens the timeof onset or worsens the liver and kidney damage induced by other chemicals., Exposure to lethal concentrations of methanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage., Prolonged intentional toluene abuse may lead to damage to many organ systems having effects



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on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, mild, reversible kidney effects, blood abnormalities, liver abnormalities, respiratory tract damage (nose, throat, and airways), central nervous system damage, effects on hearing, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, kidney damage, visual impairment

#### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

## Reproductive hazard

Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain., Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans., This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
SOLVENT NAPHTHA (PETROLEUM), LIGHT	64742-89-8	>=40-<50%
ALIPHATIC		
METHANOL	67-56-1	>=30-<40%
TOLUENE	108-88-3	>=5-<10%
ACETONE	67-64-1	>=5-<10%
CARBON DIOXIDE	124-38-9	>=5-<10%



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## 4. FIRST AID MEASURES

#### **Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

#### Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

## **Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

## Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

## Notes to physician

**Hazards:** 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 may initiate cardiac arrhythmias in persons exposed to this material. This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.

**Treatment:** No information available.



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## 5. FIREFIGHTING MEASURES

## Suitable extinguishing media

Carbon dioxide (CO2), Foam, Dry powder, Water spray

## **Hazardous combustion products**

Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, organic compounds

## **Precautions for fire-fighting**

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

## NFPA Flammable and Combustible Liquids Classification

not applicable

## 6. ACCIDENTAL RELEASE MEASURES

## **Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

## **Environmental precautions**

Do not flush into surface water or sanitary sewer system.

#### Methods for cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### Other information

Comply with all applicable federal, state, and local regulations.

## 7. HANDLING AND STORAGE

## Handling





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Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

## **Storage**

Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

SOLVENT NAPHTHA (PETROLEUM), LIGHT		64742-89-8
ALIPHATIC		
OSHA Z1	time weighted average	500 ppm
ACGIH	time weighted average	300 ppm
OSHA Z1	time weighted average	2,000 mg/m3
ACGIH	time weighted average	1,370 mg/m3
METHANOL		67-56-1
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	260 mg/m3
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	325 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	260 mg/m3
TOLUENE		108-88-3
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	375 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm
ACETONE		67-64-1
ACGIH	time weighted average	500 ppm
ACGIH	Short term exposure limit	750 ppm
NIOSH	Recommended exposure	250 ppm



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	limit (REL):	
NIOSH	Recommended exposure	590 mg/m3
	limit (REL):	
OSHA Z1	Permissible exposure limit	1,000 ppm
OSHA Z1	Permissible exposure limit	2,400 mg/m3
ACGIH NIC	time weighted average	200 ppm
ACGIH NIC	Short term exposure limit	500 ppm
CARBON DIOXIDE		124-38-9
ACGIH	time weighted average	5,000 ppm
ACGIH	Short term exposure limit	30,000 ppm
NIOSH	Recommended exposure	5,000 ppm
	limit (REL):	
NIOSH	Recommended exposure	9,000 mg/m3
	limit (REL):	
NIOSH	Short term exposure limit	30,000 ppm
NIOSH	Short term exposure limit	54,000 mg/m3
OSHA Z1	Permissible exposure limit	5,000 ppm
OSHA Z1	Permissible exposure limit	9,000 mg/m3

#### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

#### **Exposure controls**

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.

#### **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 normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.



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## **Respiratory protection**

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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	aerosol
Flash point	19.9 °F / -6.7 °C
Density	0.8057 g/cm3 @ 60.01 °F / 15.56 °C

## 10. STABILITY AND REACTIVITY

## **Stability**

Stable.

## Conditions to avoid

Heat, flames and sparks.

#### **Incompatible products**

Acids, alkalis, Amines, Ammonia, halogens, Lead, peroxides, Reducing agents, sodium, Strong oxidizing agents, Peroxides

## **Hazardous decomposition products**

Aldehydes, carbon dioxide and carbon monoxide, formaldehyde-like, Hydrocarbons, organic compounds

## **Hazardous reactions**

Product will not undergo hazardous polymerization.





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## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity** 

Acute oral toxicity - : no data available

Product

Acute oral toxicity - Components

SOLVENT NAPHTHA : LD 50: > 8,000 mg/kg Species: Rat

(PETROLEUM), LIGHT

**ALIPHATIC** 

METHANOL : LD L0: 300 mg/kg Species: Human

TOLUENE : LD 50: > 5,000 mg/kg Species: Rat

ACETONE : LD 50: 5,800 mg/kg Species: Rat

Acute inhalation toxicity

Acute inhalation toxicity - : no data available

Product

Acute inhalation toxicity - Components

SOLVENT NAPHTHA : LC 50: 3400 ppm Exposure time: 4 h Species: Rat

(PETROLEUM), LIGHT

**ALIPHATIC** 

METHANOL : LC 50: 64000 ppm Exposure time: 4 h Species: Rat

Remarks: Slightly toxic by inhalation

TOLUENE : LC 50: 8000 ppm Exposure time: 4 h Species: Rat

ACETONE : LC 50: > 16000 ppm Exposure time: 4 h Species: Rat

**Acute dermal toxicity** 

Acute dermal toxicity - : no data available

Product

Acute dermal toxicity - Components

SOLVENT NAPHTHA : LD 50: >4,000 mg/kg Species: Rat

(PETROLEUM), LIGHT

**ALIPHATIC** 

METHANOL : LD 50: 12,800 mg/kg Species: Rabbit

TOLUENE : LD 50: 12,124 mg/kg Species: Rabbit



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ACETONE : LD 50: > 20,000 mg/kg Species: Rabbit

**Acute toxicity (other routes of administration)** 

Acute toxicity (other

NM4800

: no data available

routes of administration)

## 12. ECOLOGICAL INFORMATION

**Biodegradability** 

Biodegradability - Product : no data available

Biodegradability - Components

METHANOL : 99 % Method: OECD Test Guideline 301D

**Bioaccumulation** 

Bioaccumulation - Product : no data available

Bioaccumulation - Components

METHANOL : Species: Green algae (Chlorella fusca vacuolata) Exposure

time: 24 h Concentration: 0.05 mg/l Bioconcentration

factor (BCF): 28,400 Method: Static

TOLUENE : Species: Ide, silver or golden orfe (Leuciscus idus)

Exposure time: 3 d Concentration: 0.05 mg/l

Bioconcentration factor (BCF): 94 Method: Not reported

**Ecotoxicity effects** 

**Toxicity to fish** 

Toxicity to fish - Product : no data available

Toxicity to fish - Components

METHANOL : LC 50: 18,000 - 20,000 mg/l

Exposure time: 96 h

Species: Rainbow trout, donaldson trout (Oncorhynchus

mykiss)

Test Type: static test



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TOLUENE	: LC 50: 5.8 mg/l
	Exposure time: 96 h
	Species: Rainbow trout, donaldson trout (Oncorhynchus
	mykiss)
	Test Type: Renewal
	LC 50: 12.6 mg/l
	Exposure time: 96 h
	Species: Fathead minnow (Pimephales promelas)
	Test Type: static test

ACETONE	: LC 50: 4,740 - 6,330 mg/l
	Exposure time: 96 h
	Species: Rainbow trout, donaldson trout (Oncorhynchus
	mykiss)
	Test Type: static test
	LC 50: 8,733 - 9,482 mg/l
	Exposure time: 96 h
	Species: Fathead minnow (Pimephales promelas)
	Test Type: flow-through test

## Toxicity to daphnia and other aquatic invertebrates

oxicity to duplima and other aquatic invertebrates			
Toxicity to daphnia and	: no data available		
other aquatic invertebrates			
- Product			

Toxicity to daphnia and other aquatic invertebrates - Components

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METHANOL	: EC 50: > 10,000 mg/l	
	Exposure time: 48 h	
	Species: Water flea (Daphnia magna)	
	Test Type: static test	

TOLUENE	: EC 50: 6 mg/l	
	Exposure time: 48 h	
	Species: Water flea (Daphnia magna)	
	Test Type: static test	



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Toxicity to algae

Toxicity to algae - : no data available Product

Toxicity to bacteria

Toxicity to bacteria - : no data available

Product

## 13. DISPOSAL CONSIDERATIONS

## Waste disposal methods

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

## 14. TRANSPORT INFORMATION

## REGULATION

ID	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE	
NUMBER		CLASS	HAZARDS	GROUP	POLLUTANT	
					/ LTD. QTY.	
U.S. DOT - RC	OAD					
1950	AEROSOLES	2				
U.S. DOT - RA	AIL .					
1950	Aerosols, flammable	2.1				
					_	
U.S. DOT - IN	U.S. DOT - INLAND WATERWAYS					
1950	Aerosols, flammable	2.1				
TRANSPORT	CANADA - ROAD					

## TRANSPORT CANADA - RAIL

**AEROSOLS** 

UN	1950	AEROSOLS	2.1
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2.1

1950

UN



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## TRANSPORT CANADA - INLAND WATERWAYS

UN	1950	AEROSOLS	2.1	
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#### INTERNATIONAL MARITIME DANGEROUS GOODS

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

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	ORM-D, CONSUMER	ORM	
	COMMODITY		

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	ORM-D, CONSUMER	ORM	
	COMMODITY		

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

UN	ORM-D, CONSUMER	ORM	
	COMMODITY		

<sup>\*</sup>ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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.

## 15. REGULATORY INFORMATION

## California Prop. 65

- CW11101111W 11 OF CO	
WARNING! This product contains a chemical known to the State	BENZENE
of California to cause cancer.	ETHYL BENZENE

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



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BENZENE

# SARA Hazard Classification SARA 311/312 Classification

Acute Health Hazard Fire Hazard Sudden Release of Pressure Hazard

Sudden Release of Flessure Hazard

**SARA 313 Component(s)** 

METHANOL	34.84 %
TOLUENE	9.42 %

**New Jersey RTK Label Information** 

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8
METHANOL	67-56-1
TOLUENE	108-88-3
ACETONE	67-64-1
CARBON DIOXIDE	124-38-9

Pennsylvania RTK Label Information

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8
METHANOL	67-56-1
TOLUENE	108-88-3
ACETONE	67-64-1
CARBON DIOXIDE	124-38-9
BENZENE	71-43-2

## **Notification status**

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	
Australia. Industrial Chemical (Notification and Assessment)	y (positive listing)
Act	
New Zealand. Inventory of Chemicals (NZIoC), as published	y (positive listing)
by ERMA New Zealand	
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)



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Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

**Reportable quantity - Product** 

US. EPA CERCLA	Hazardous Substances (40 CFR 302)	10612 lbs

**Reportable quantity-Components** 

TOLLIENE 100 00 2 1000 1bc				
10LUENE 100-00-3 1000 IDS	TOLUENE	108-88-3	1000 lbs	

	HMIS	NFPA
Health	2	2
Flammability	4	4
Physical hazards	0	
Instability		0
Specific Hazard		

## **16. OTHER INFORMATION**

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 MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).