

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

NM4700

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product identifier**Trade name : NAPA® MAC'S BRAKE &
BRAKE PARTS CLEANER**Recommended use of the chemical and restrictions on use**

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

Acute toxicity (Inhalation) : Category 4
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitization : Category 1
Carcinogenicity : Category 2
Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin irritation.



Page: 2

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause drowsiness or dizziness.
Suspected of causing cancer.

Precautionary Statements**: Prevention:**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.
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 exposed or concerned: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

Storage:

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

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
TETRACHLOROETHYLENE	127-18-4	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	91.78

SAFETY DATA SHEET

Revision Date: 05/23/2015

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SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

		Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H336	
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	8.12

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.
Keep patient warm and at rest.
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 : Obtain medical attention.
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
may initiate cardiac arrhythmias in persons exposed to this
material.
Signs and symptoms of exposure to this material through
breathing, swallowing, and/or passage of the material through



Page: 4

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

the skin may include:
redness of the skin
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
temporary changes in mood and behavior
confusion
irregular heartbeat
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause drowsiness or dizziness.
Suspected of causing cancer.

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

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide
Chlorine
hydrogen chloride
Phosgene

Specific extinguishing methods :
Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and : Use personal protective equipment.
Ensure adequate ventilation.

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

NM4700

emergency procedures

Avoid breathing dust.

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.

SECTION 7. HANDLING AND STORAGE**Advice on safe handling**

: Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Container hazardous when empty.

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.

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.

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.

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	Basis

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

			concentration	
TETRACHLOROETHYLENE	127-18-4	TWA	25 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm	OSHA/Z2
		Ceiling	200 ppm	OSHA/Z2
		MAX. CONC	300 ppm	OSHA/Z2
		TWA	25 ppm 170 mg/m ³	TN OEL
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		REL	5,000 ppm 9,000 mg/m ³	NIOSH/GUIDE
		STEL	30,000 ppm 54,000 mg/m ³	NIOSH/GUIDE
		PEL	5,000 ppm 9,000 mg/m ³	OSHA_TRAINS

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
TETRACHLOROETHYLENE	127-18-4	tetrachloroethylene	Blood	Sampling time: Prior to shift.	0.5 mg/l	
		tetrachloroethylene	End-exhaled air	Sampling time: Prior to shift.	3 ppm	

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.

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

Hand protection

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
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment 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 : 250.3 °F / 121.3 °C
Calculated Phase Transition Liquid/Gas

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 24.6642 hPa (25 °C)
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

Density : No data available

Solubility(ies)
Water solubility : No data available

Solubility in other solvents : No data available

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

Thermal decomposition : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

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 : Product will not undergo hazardous polymerization.

Conditions to avoid : Avoid heat, open flame, and prolonged storage at elevated temperatures.
UV light.
Exposure to sunlight.

Incompatible materials : Alkali metals
aluminum
Amines
Barium
Strong acids
strong bases
Strong oxidizing agents
Zinc

Hazardous decomposition products : carbon dioxide and carbon monoxide
Chlorine
hydrogen chloride
Phosgene

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

NM4700

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Harmful if inhaled.

Components:

TETRACHLOROETHYLENE:

Acute oral toxicity : LD50 (Rat, male): 3,835 mg/kg
LD50 (Rat, female): 3,005 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): > 3,228 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

TETRACHLOROETHYLENE:

Result: Irritating to skin

CARBON DIOXIDE:

Result: Not 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:

TETRACHLOROETHYLENE:

Result: Irritating to eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

TETRACHLOROETHYLENE:

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

NM4700

Test Type: Local lymph node assay

Exposure routes: Dermal

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:**TETRACHLOROETHYLENE:**

Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro
Test species: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

: Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

: Test Type: In vitro mammalian cell gene mutation test
Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity

Suspected of causing cancer.

Components:**TETRACHLOROETHYLENE:**

Carcinogenicity - : Limited evidence of carcinogenicity in animal studies

Assessment

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:**TETRACHLOROETHYLENE:**

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

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.

Components:

TETRACHLOROETHYLENE:

Remarks: Central nervous system

Carcinogenicity:

IARC

Group 2A: Probably carcinogenic to humans

TETRACHLOROETHYLENE 127-18-4

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

Reasonably anticipated to be a human carcinogen

TETRACHLOROETHYLENE 127-18-4

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:**

TETRACHLOROETHYLENE:

Toxicity to fish

: LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 4.73 - 5.27 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 7 - 11 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae

: EC50 (Green algae): 3.64 mg/l
End point: Growth inhibition
Exposure time: 72 h

Toxicity to fish (Chronic toxicity)

: NOEC (Jordanella floridae (flagfish)): 2.34 mg/l
Exposure time: 28 d
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.51 mg/l
Exposure time: 28 d
End point: Reproduction Test
Test Type: semi-static test

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

Toxicity to bacteria : IC50 (Bacteria): 112 mg/l
Exposure time: 24 h

Persistence and degradability**Components:**

TETRACHLOROETHYLENE:

Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential**Components:**

TETRACHLOROETHYLENE:

Bioaccumulation : Species: Bluegill (Lepomis macrochirus)
Bioconcentration factor (BCF): 49
Exposure time: 21 d
Concentration: 0.00343 mg/l
Method: Flow through

Partition coefficient: n-octanol/water : log Pow: 2.53 (23 °C)

Mobility in soil**Components:**

No data available

Other adverse effects

No data available

Product:

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

Components:

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



Page: 13

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

Version: 1.0

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

NM4700

handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
NM4700					

U.S. DOT - ROAD

ORM-D, CONSUMER COMMODITY	ORM	MARINE POLLUTANT:(TETRACHLOR OETHYLENE)

U.S. DOT - RAIL

ORM-D, CONSUMER COMMODITY	ORM	MARINE POLLUTANT:(TETRACHLOR OETHYLENE)

U.S. DOT - INLAND WATERWAYS

ORM-D, CONSUMER COMMODITY	ORM	MARINE POLLUTANT:(TETRACHLOR OETHYLENE)

TRANSPORT CANADA - ROAD

UN 1950 AEROSOLS	2.2

TRANSPORT CANADA - RAIL

UN 1950 AEROSOLS	2.2

TRANSPORT CANADA - INLAND WATERWAYS

UN 1950 AEROSOLS	2.2	MARINE POLLUTANT:(TETRACHLOR OETHYLENE)

INTERNATIONAL MARITIME DANGEROUS GOODS



Page: 14

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

Version: 1.0

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

NM4700

UN 1950 AEROSOLS

2.2

MARINE
POLLUTANT:(
TETRACHLOR
OETHYLENE)**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN 1950 Aerosols, non-flammable 2.2

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1950 Aerosols, non-flammable 2.2

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 1950 AEROSOLES 2

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**Marine pollutant yes

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.

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)
TETRACHLOROETHYLENE	127-18-4	100	108.947534

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard**SARA 313 Component(s)**TETRACHLOROETHYLENE 127-18-4 91.78 %
NE**Pennsylvania Right To Know**TETRACHLOROETHYLENE 127-18-4 90.00 -
100.00 %
CARBON DIOXIDE 124-38-9 5.00 - 10.00 %



Page: 15

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

New Jersey Right To Know

TETRACHLOROETHYLENE	127-18-4	90.00 - 100.00 %
CARBON DIOXIDE	124-38-9	5.00 - 10.00 %

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.
TETRACHLOROETHYLENE 127-18-4
NE

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: 05/23/2015

NFPA:	HMIS III:
<p>Flammability</p>  <p>Health 2</p> <p>Instability 0</p> <p>Special hazard. 0</p>	<p>HEALTH 2*</p> <p>FLAMMABILITY 0</p> <p>PHYSICAL HAZARD 0</p>

NFPA Flammable and Combustible Liquids Classification

Not applicable

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

H280	Contains gas under pressure; may explode if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

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

ACGIH : American Conference of Governmental Industrial Hygienists



Page: 17

SAFETY DATA SHEET

Revision Date: 05/23/2015

Print Date: 6/2/2015

SDS Number: R0339974

NAPA® MAC'S BRAKE & BRAKE PARTS
CLEANER

Version: 1.0

NM4700

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

LC_{xx} : Lethal Concentration, for xx percent of test populationLD_{xx} : Lethal Dose, for xx percent of test population.IC_{xx} : Inhibitory Concentration for xx of a substanceEc_{xx} : 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

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