

Prod.Name: 88862650 Non-Chlorinated Brake Parts Cleaner
Manufacturer: SHERWIN-WILLIAMS COMPANY
HMCS ID: 340273
SUC: 02 - Solvents - Flashpoint < 100 F

MATERIAL SAFETY DATA SHEET

Revision: 17.Mar.2009
Effective: 14.Jan.2009
Print Date: 08.May.2009
Page: 1 of 8

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: 88862650 Non-Chlorinated Brake Parts Cleaner

External Keys:

88862651 Distributable Material (Part #)
88862650 Distributable Material (Part #)
10-6012 Distributable Material (Part #)
88862661 Distributable Material (Part #)
Low VOC Non-Chlorinated Brake Parts Cleaner
12378392, SPO Catalog Discontinued
12378394,
12378467, 10-111

MANUFACTURER INFORMATION

Manufacturer: SHERWIN-WILLIAMS COMPANY

Address:

101 Prospect Avenue N.W. USA Ohio 44115 Cleveland MAILING

Communication Lines:

Phone 216-566-2917 Medical emergency
Phone 216-566-2902 Regulatory information
Phone 800-247-3270 Information - Duplicolor Products Group
Phone 800-247-3266 Information - Diversified Brands
Phone 800-832-2541 Information - Krylon Products Group
Phone 800-251-2486 Information - Consumer Group Industrial
Phone 800-424-9300 Transportation emergency (Chemtrec)

2 INGREDIENT INFORMATION

Synonyms:

PRODUCT NUMBER: 88862650

FORMULATION

Chemical Characterization:

PRODUCT WEIGHT: 6.65 lb/gal (797 g/l)

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
Solvent naphtha, petroleum, light aliph.	64742-89-8	=	11	% Wt	No
TOLUENE	108-88-3	=	8	% Wt	Yes
ACETONE	67-64-1	=	74	% Wt	Yes
CARBON DIOXIDE	124-38-9	=	6	% Wt	Yes

3 HAZARDS IDENTIFICATION

Hazards Overview:

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Specific Hazards:

ROUTES OF EXPOSURE: INHALATION of vapor or spray mist. EYE or SKIN contact with the product, vapor or spray mist.

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Observation</u>
Skin Contact	Prolonged or repeated exposure may cause irritation.

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3 HAZARDS IDENTIFICATION

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Observation</u>
Inhalation	Irritation of the upper respiratory system.
Eye Contact	Irritation

Effects Of Overexposure:

. SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Medical Conditions Aggravated By Exposure:

None generally recognized.

4 FIRST AID MEASURES

First Aid By::

Inhalation	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
Skin Contact	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye Contact	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
Ingestion	Do not induce vomiting. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Flash Point:

< 0 °F

Explosive Limits:

Upper Explosive Limit (UEL)	=	12.8
Lower Explosive Limit (LEL)	=	1.0

Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam.

Fire and Explosion Hazards:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures:

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Comment:

Full protective equipment including self-contained breathing apparatus should be used.

6 ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

Recovery:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Disposal:

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

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6 ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

Disposal:

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures.

STORAGE

Storage Conditions:

STORAGE CATEGORY: Not available.

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

VENTILATION:

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94,1910.107,1910.108.

EXPOSURE LIMITS

Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specification</u>	<u>Source</u>	<u>Memo</u>
TOLUENE	108-88-3	PEL-TWA	200ppm	-	OSHA - Permissible Exposure Limits (PELs)	
TOLUENE	108-88-3	PEL-Ceiling	300ppm	-	OSHA - Permissible Exposure Limits (PELs)	
TOLUENE	108-88-3	GM OEG -TWA	50ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
TOLUENE	108-88-3	TLV-TWA	50ppm	-	Threshold Limit Values (TLVs) - ACGIH	Skin
TOLUENE	108-88-3	State-TWA	100ppm	-	MICHIGAN	
TOLUENE	108-88-3	State-STEEL	150ppm	-	MICHIGAN	
TOLUENE	108-88-3	State-TWA	100ppm	-	NEW YORK	
TOLUENE	108-88-3	State-STEEL	150ppm	-	NEW YORK	
TOLUENE	108-88-3	State-TWA	100ppm	-	TENNESSEE	

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specification</u>	<u>Source</u>	<u>Memo</u>
TOLUENE	108-88-3	State- STEL	150ppm	-	TENNESSEE	
ACETONE	67-64-1	GM OEG -TWA	500ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETONE	67-64-1	GM OEG -STEL	750ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETONE	67-64-1	TLV- TWA	500ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETONE	67-64-1	TLV- STEL	750ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETONE	67-64-1	State- TWA	750ppm	-	MICHIGAN	
ACETONE	67-64-1	State- STEL	1000ppm	-	MICHIGAN	
ACETONE	67-64-1	State- TWA	750ppm	-	NEW YORK	
ACETONE	67-64-1	State- STEL	1000ppm	-	NEW YORK	
ACETONE	67-64-1	State- TWA	750ppm	-	TENNESSEE	
ACETONE	67-64-1	State- STEL	1000ppm	-	TENNESSEE	
ACETONE	67-64-1	PEL- TWA	1000ppm	-	OSHA - Permissible Exposure Limits (PELs)	
CARBON DIOXIDE	124-38-9	PEL- TWA	5000ppm	-	OSHA - Permissible Exposure Limits (PELs)	
CARBON DIOXIDE	124-38-9	GM OEG -TWA	5000ppm	-	GM Occupational Exposure Guidelines (OEG)	
CARBON DIOXIDE	124-38-9	GM OEG -STEL	30000ppm	-	GM Occupational Exposure Guidelines (OEG)	
CARBON DIOXIDE	124-38-9	TLV- TWA	5000ppm	-	Threshold Limit Values (TLVs) -	

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specification</u>	<u>Source</u>	<u>Memo</u>
CARBON DIOXIDE	124-38-9	TLV-STEL	30000ppm	-	ACGIH Threshold Limit Values (TLVs) - ACGIH	
CARBON DIOXIDE	124-38-9	State-TWA	10000ppm	-	MICHIGAN	
CARBON DIOXIDE	124-38-9	State-STEL	30000ppm	-	MICHIGAN	
CARBON DIOXIDE	124-38-9	State-TWA	10000ppm	-	NEW YORK	
CARBON DIOXIDE	124-38-9	State-STEL	30000ppm	-	NEW YORK	
CARBON DIOXIDE	124-38-9	State-TWA	10000ppm	-	TENNESSEE	
CARBON DIOXIDE	124-38-9	State-STEL	30000ppm	-	TENNESSEE	

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Respiratory Protection If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

Hand Protection None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

Eye Protection Wear safety spectacles with unperforated sideshields.

General Protection Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Special Precautions:

PRECAUTIONS TO BE TAKEN IN USE:

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Aerosol

PHYSICAL PROPERTIES

Changes of State:

Boiling Point Range 0- 238 °F <-18 - 114°C

Melting/Freezing Point Not Available Melting Point

Vapor Pressure:

= 53 mm Lt. Aliphatic Hydrocarbon Solvent (64742-89-8)

= 22 mm Toluene (108-88-3)

= 180 mm Acetone (76-64-1)

= 760 mm Carbon Dioxide (124-38-9)

Vapor Density:

HEAVIER THAN AIR

Evaporation Rate:

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9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Evaporation Rate:

FASTER THAN ETHER

Specific Gravity:

= 0.80

Solubility:

Water N/A

VOC:

Theoretical VOC (by wt.) = 20.00 %Wt Less Water and Federally Exempt Solvents

Total Amount Of::

Percent Volatile = 100 %'

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Conditions to Avoid:

None known

Incompatible Materials:

None known

Hazardous Polymerization:

Will not occur

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction

Reaction Products

Decomposition

HAZARDOUS DECOMPOSITION PRODUCTS: By fire: Carbon Dioxide, Carbon Monoxide.

11 TOXICOLOGICAL INFORMATION

OCCUPATIONAL EXPERIENCES

Health Effects:

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular.

SCIENTIFIC OBSERVATIONS

LETHAL LIMIT VALUES

Data By Chemical:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Species</u>	<u>Comment</u>
Solvent naphtha, petroleum, light aliph.	64742-89-8	LC50	Not Available			Rat	4HR.
Solvent naphtha, petroleum, light aliph.	64742-89-8	LD50	Not Available			Rat	
TOLUENE	108-88-3	LC50	=	4000	ppm	Rat	4 HR.
TOLUENE	108-88-3	LD50	=	5000	mg/kg	Rat	
ACETONE	67-64-1	LC50	Not Available			Rat	4 HR.
ACETONE	67-64-1	LD50	=	5800	mg/kg	Rat	
CARBON DIOXIDE	124-38-9	LC50	Not Available			Rat	4 HR.
CARBON DIOXIDE	124-38-9	LD50	Not				

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11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

LETHAL LIMIT VALUES

Data By Chemical:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Prefix</u> Available	<u>Value</u>	<u>Unit</u>	<u>Species</u> Rat	<u>Comment</u>
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CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

CHRONIC HEALTH HAZARDS: No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer.

Reproductive Effects:

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the reproductive systems.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:

No data available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

14 TRANSPORT INFORMATION

DOT Information:

May be classed as Consumer Commodity, ORM-D, Limited Quantity, (ERG#126).

DOT Shipping Name:

Aerosols

DOT Hazard Class:

2.1

DOT UN Code:

UN1950

Comment:

IMO: May be shipped as Limited Quantity, UN1950, Class 2, Limited Quantity, EmS F-D, S-U

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

NFPA Health	2
NFPA Flammability	3
NFPA Reactivity	0
HMIS Health	2
HMIS Flammability	3
HMIS Reactivity	0

Comment:

NFPA assigned by General Motors Technical Review.

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15 REGULATORY INFORMATION

NATIONAL REGULATIONS

SARA 311/312: No

SARA 313: Yes

Immediate Health: No

Delayed Health: No

Fire: No

Sudden Pressure Release: No

Reactive: No

Other Regulation:

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

(108-88-3) Toluene: 8% by Wt.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

STATE/LOCAL REGULATIONS

Comment:

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

16 OTHER INFORMATION