

**Prod.Name:** Z2B100945 VOC COMPLIANT  
CONTACT CLEANER  
**Manufacturer:** SHERWIN-WILLIAMS COMPANY  
**HMCS ID:** 30052284  
**SUC:** 02 - Solvents - Flashpoint < 100 F

# MATERIAL SAFETY DATA SHEET

**Revision:** 08.Nov.2010  
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## 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT INFORMATION

**Product Name:** Z2B100945 VOC COMPLIANT CONTACT CLEANER

#### External Keys:

Brake Parts Primary Tradename - Distributable Material  
Cleaner (45% VOC)  
19287400 Distributable Material (Part #)  
10-6013 Distributable Material (Part #)

### 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  
Z2B100945

### FORMULATION

#### Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
HEPTANE	142-82-5	=	21	% Wt	Yes
Solvent naphtha, petroleum, light aliph.	64742-89-8	=	1	% Wt	No
TOLUENE	108-88-3	=	22	% Wt	Yes
CYCLOHEXANE, METHYL-	108-87-2	=	1	% Wt	Yes
ACETONE	67-64-1	=	47	% Wt	Yes
CARBON DIOXIDE	124-38-9	=	8	% Wt	Yes

## 3 HAZARDS IDENTIFICATION

#### 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>
Eye contact	Irritation.
Skin Contact	Prolonged or repeated exposure may cause irritation.
Inhalation	Irritation of the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

#### Effects Of Overexposure:

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### 3 HAZARDS IDENTIFICATION

#### Effects Of Overexposure:

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the cardiovascular system
- the reproductive system

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:

= 13 °F PMCC

#### Explosive Limits:

Upper Explosive Limit (UEL)	=	12.8
Lower Explosive Limit (LEL)	=	1

#### 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:

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

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.

### 6 ACCIDENTAL RELEASE MEASURES

#### SPILL OR LEAK PROCEDURES

##### Recovery:

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

### 7 HANDLING AND STORAGE

#### HANDLING

##### Safe Handling Procedures:

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off

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**7 HANDLING AND STORAGE**

**HANDLING**

**Safe Handling Procedures:**

stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. 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.

**STORAGE**

**Storage Conditions:**

**STORAGE CATEGORY**

Not Available

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

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. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. 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>
HEPTANE	142-82-5	PEL-TWA	500ppm	-	OSHA - Permissible Exposure Limits (PELs)	
HEPTANE	142-82-5	GM OEG -TWA	400ppm	-	GM Occupational Exposure Guidelines (OEG)	
HEPTANE	142-82-5	GM OEG -STEL	500ppm	-	GM Occupational Exposure Guidelines (OEG)	
HEPTANE	142-82-5	TLV-TWA	400ppm	-	Threshold Limit Values (TLVs) - ACGIH	
HEPTANE	142-82-5	TLV-STEL	500ppm	-	Threshold Limit Values (TLVs) - ACGIH	
HEPTANE	142-82-5	State-TWA	400ppm	-	MICHIGAN	
HEPTANE	142-82-5	State-STEL	500ppm	-	MICHIGAN	
HEPTANE	142-82-5	State-TWA	400ppm	-	NEW YORK	
HEPTANE	142-82-5	State-STEL	500ppm	-	NEW YORK	
HEPTANE	142-82-5	State-				

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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>
HEPTANE	142-82-5	TWA	400ppm	-	TENNESSEE	
		State- STEL	500ppm	-	TENNESSEE	
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	20ppm	-	Threshold Limit Values (TLVs) - ACGIH	Skin
TOLUENE	108-88-3	State- TWA	100ppm	-	MICHIGAN	
TOLUENE	108-88-3	State- STEL	150ppm	-	MICHIGAN	
TOLUENE	108-88-3	State- TWA	100ppm	-	NEW YORK	
TOLUENE	108-88-3	State- STEL	150ppm	-	NEW YORK	
TOLUENE	108-88-3	State- TWA	100ppm	-	TENNESSEE	
TOLUENE	108-88-3	State- STEL	150ppm	-	TENNESSEE	
CYCLOHEXANE, METHYL-	108-87-2	PEL- TWA	500ppm	-	OSHA - Permissible Exposure Limits (PELs)	
CYCLOHEXANE, METHYL-	108-87-2	GM OEG -TWA	400ppm	-	GM Occupational Exposure Guidelines (OEG)	
CYCLOHEXANE, METHYL-	108-87-2	TLV- TWA	400ppm	-	Threshold Limit Values (TLVs) - ACGIH	
CYCLOHEXANE, METHYL-	108-87-2	State- TWA	400ppm	-	MICHIGAN	
CYCLOHEXANE, METHYL-	108-87-2	State- TWA	400ppm	-	NEW YORK	
CYCLOHEXANE, METHYL-	108-87-2	State- TWA	400ppm	-	TENNESSEE	
ACETONE	67-64-1	GM OEG			GM	

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**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>
		-STEL	750ppm	-	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)	
ACETONE	67-64-1	GM OEG -TWA	500ppm	-	GM Occupational Exposure Guidelines (OEG)	
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) - ACGIH	
CARBON DIOXIDE	124-38-9	TLV-STEL	30000ppm	-	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	State-TWA	10000ppm	-	ACGIH 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 the ingredients.
Eye Protection	Wear safety spectacles with unperforated sideshields.
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.

##### Special Precautions:

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

##### OTHER PRECAUTIONS

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

### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE

##### Comment:

Physical state: Aerosol.

#### PHYSICAL PROPERTIES

##### pH Value:

= 7

##### Changes of State:

Boiling Point	Range	<0 - 238	°F	<-18 - 114	°C
Melting/Freezing Point	Not Available				

##### Vapor Density:

Heavier than air.

##### Evaporation Rate:

Faster than ether.

##### Specific Gravity:

= 0.80

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL PROPERTIES

#### Solubility:

Water Not Available

#### VOC:

Analytical VOC (by wt.)	=	45	'%	Less water and federally exempt solvents.
VOC	=	2.99	lb/gal	358 g/l Total
VOC	=	5.69	lb/gal	682 g/l Less exempt solvents of solids
VOC	=	0.00	lb/gal	of solids
VOC	=	0.00		lb/lb (0.00 kg/kg) of solids
VOC	=	6.65	lb/gal	Coating density
VOC	=	100.0	% Wt	Total volatiles
VOC	=	8.0	% Wt	Non Organic volatiles: Carbon Dioxide.
VOC				Federally exempt solvents: Water: 0.0 % by wt, 0.0 % by vol Acetone: 47.0 % by wt, 47.4 % by vol
VOC	=	45	% Wt	Organic volatiles 46.3 % by vol
VOC	=	0.0	% Wt	Percent Non-Volatile

#### Total Amount Of:

Percent Volatile by Volume = 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:

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### SCIENTIFIC OBSERVATIONS

#### LETHAL LIMIT VALUES

#### Additional Information:

Heptane (142-82-5)  
LC50 RAT 4H: Not available  
LD50 RAT: Not available  
Lt. Aliphatic Hydrocarbon Solvent (64742-89-8)

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### 11 TOXICOLOGICAL INFORMATION

#### SCIENTIFIC OBSERVATIONS

##### LETHAL LIMIT VALUES

###### Additional Information:

LC50 RAT 4H: Not available

LD50 RAT: Not available

Toluene (108-88-3)

LC50 RAT 4HR: 4000 ppm

LD50 RAT: 5000 mg/kg

Methyl Cyclohexane (108-87-2)

LC50 RAT 4H: Not available

LD50 RAT: Not available

Acetone (67-64-1)

LC50 RAT 4H: Not available

LD50 RAT: 5800 mg/kg

Carbon Dioxide (124-38-9)

LC50 RAT 4H: Not available

LD50 RAT: Not available

#### CLASSIFICATION OF INGREDIENTS

##### Carcinogenicity:

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:

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.

#### ECOTOXICITY

##### Comment:

No data available.

### 13 DISPOSAL CONSIDERATIONS

#### Waste Disposal Information:

##### WASTE DISPOSAL METHOD

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



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### 14 TRANSPORT INFORMATION

**DOT UN Code:**

UN1950

**Comment:**

IMO

May be shipped as Limited Quantity

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U, ADR (D)

### 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 Technica Review.

#### NATIONAL REGULATIONS

**SARA 311/312:** Yes

**SARA 313:** Yes

**Immediate Health:** Yes

**Delayed Health:** No

**Fire:** Yes

**Sudden Pressure Release:** No

**Reactive:** No

**Other Regulation:**

SARA 313

TSCA

Air Quality Data

Toluene (108-88-3): 22 % by WT

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

Density of Organic Solvent Blend

6.53 lb/gal

Photochemically Reactive

Yes

Maximum Incremental Reactivity (MIR)

(California Air Resources Board Aerosol Products Regulation, MIR Value July 18, 2001)

1.55

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule)

1.55

#### 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