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Winston-Salem
Regional Office

GUILFORD COUNTY

DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

March 22, 1990

DEHNR
Groundwater Division
Attn: Steve Weiss
8025 North Point Blvd.
Winston-Salem, NC 27106-3295

Steve,

Enclosed is the information you requested on (Piedmont Hub) Inc. If I can be of further assistance, please contact me between 8:00 a.m. and 5:00 p.m.

Sincerely,

Todd W. Davidson

Todd W. Davidson
Toxic and Health Hazard Unit Specialist

/hn

enclosure

301 North Eugene Street
P.O. Box 3508
Greensboro, N. C. 27401
Phone: (919) 373-3771

Piedmont Pub

RECEIVED
N.C. Dept. NRCD
MAR 30 1990
Winston-Salem
Regional Office

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS
REPLACES NPCA 1-82

MANUFACTURER'S NAME
WOHL CHEMICAL COMPANY
6161 MAPLE AVENUE
ST. LOUIS, MO 63130

EMERGENCY TELEPHONE NO.
(314) 725-3139

INFORMATION TELEPHONE NO.
(314) 725-3139

DATE OF PREPARATION
4-88

SECTION I — PRODUCT IDENTIFICATIAON

PRODUCT NUMBER BB-99
PRODUCT NAME Black Pipe Coating
PRODUCT CLASS Metal Pipe Coating

Meets a Rule 66 Formulation

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT % Volume	OCCUPATIONAL EXPOSURE LIMITS TLV	PEL	VAPOR PRESSURE mm Hg @ 68°F
TOLUENE	15	100 PPM	200 PPM	22.00
XYLENE	4	100 PPM	100 PPM	5.10
ALIPHATIC NAPTHA	81	100 PPM	200 PPM	40.00

SECTION III — PHYSICAL DATA

BOILING RANGE 200-282°F
VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR
EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER
% VOLATILE VOLUME 80±%
WT/GAL 6.9± #/Gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA _____ DOT X FLASH POINT >20°F FLAMMABLE LIQUID LEL 1.2

EXTINGUISHING MEDIA:
☒ FOAM ☐ "ALCOHOL" FOAM ☒ CO2 ☒ DRY CHEMICAL ☐ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge or other ignition source.

SPECIAL FIREFIGHTING PROCEDURES
Do not use water, exclude air, wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE EYES-can cause severe irritation, redness, tearing, blurred vision. SKIN-prolonged contact may cause minor skin irritation LD-50 rabbits 14,000 mg/kg. BREATHING - excessive amounts inhaled can cause nasal and respiratory irritation, CNS effects include dizziness, weakness and headache. SWALLOWING - can cause vomiting, diarrhea, and nausea.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals - liver abnormalities, kidney damage, lung damage, CNS, spleen damage, anemia, and eye damage.

PRIMARY ROUTE(S) OF ENTRY: ☒ DERMAL ☒ INHALATION ☐ INGESTION

EMERGENCY AND FIRST AID PROCEDURES
SKIN - wash exposed area with soap and water - remove contaminated clothing
EYES - flush with large amounts of water, lifting upper and lower lids - get Medical Attention.
INGESTION - do not induce vomiting - get Medical Attention
INHALATION - remove to fresh air; if breathing has stopped apply artificial respiration and seek immediate medical attention.

SECTION VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS
Burning results in carbon dioxide and carbon monoxide

CONDITIONS TO AVOID
Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong acids or oxidizing materials

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate ignition sources, provide good ventilation, dike spill area, soak up with absorbant material and place in a closed container.

WASTE DISPOSAL

Incinerate in an approved incinerator or dispose of in a chemical landfill according to local, state and federal regulations

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION Use self-contained breathing apparatus where vapor concentration is above the TLV limits

VENTILATION Adequate to keep vapor concentration below TLV limits

PROTECTIVE GLOVES Rubber gloves recommended
EYE PROTECTION Safety goggles or glasses

OTHER PROTECTIVE EQUIPMENT Eye bath and safety shower
HYGIENIC PRACTICES:

If contact is unavoidable, wear impervious protective gear

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Handle as a flammable liquid, Use non-sparking tools when handling this material. Use in cool ventilated area away from sparks and open flames.

OTHER PRECAUTIONS

Keep containers closed when not in use; protect drums from physical damage

HAZARD RATING

HEALTH ---------- 2

FLAMMABILITY -------- 3

REACTIVITY ---------- 0

PERSONAL PROTECTION - GENERAL

Least ----- 0
Slight ---- 1
Moderate -- 2
High ------ 3
Extreme --- 4

Containers of this material maybe 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.

Piedmont Hul

1 drum/mo.

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS
REPLACES NPCA 1-82

MANUFACTURER'S NAME: WOHL CHEMICAL COMPANY
6161 MAPLE AVENUE
ST. LOUIS, MO 63130

EMERGENCY TELEPHONE NO. (314) 725-3139

INFORMATION TELEPHONE NO. (314) 725-3139

DATE OF PREPARATION 10-88

SECTION I — PRODUCT IDENTIFICATIAON

PRODUCT NUMBER: CC-86
PRODUCT NAME: Pipe Coating Thinner
PRODUCT CLASS: Thinner

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS. REG. NO.	PERCENT % VOLUME	OCCUPATIONAL EXPOSURE LIMITS TLV	PEL	VAPOR PRESSURE mm Hg
TOLUENE	108-88-3	20	100 PPM	200 PPM	22 @ 86°F
ALIPHATIC NAPTHA	64741-85-1	80	100 PPM	200 PPM	40 @ 67°F

SECTION III — PHYSICAL DATA

BOILING RANGE 208 - 232°F
VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR
EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER
% VOLATILE VOLUME 100%
WT/GAL 6.21#/gal

FLAMMABILITY CLASSIFICATION OSHA _____ FLASH POINT 30°F LEL 1.0
Paint Related Material DOT ___X___
NA-1263

EXTINGUISHING MEDIA:
☒ FOAM ☐ "ALCOHOL" FOAM ☒ CO2 ☒ DRY CHEMICAL ☐ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge or other ignition source.

SPECIAL FIREFIGHTING PROCEDURES

Do not use water, exclude air, wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE EYES - can cause severe irritation, redness, tearing, blurred vision. SKIN - prolonged contact may cause minor skin irritation LD-50 rabbits 14,000 mg/kg. BREATHING - excessive amounts inhaled can cause nasal and respiratory irritation, CNS effects include dizziness, weakness and headache. SWALLOWING - can cause vomiting, diarrhea, and nausea.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals - liver abnormalities, kidney damage, lung damage, CNS, spleen damage, anemia and eye damage.

PRIMARY ROUTE(S) OF ENTRY: ☒ DERMAL ☒ INHALATION ☐ INGESTION

EMERGENCY AND FIRST AID PROCEDURES

SKIN - wash exposed area with soap and water - remove contaminated clothing
EYES - flush with large amounts of water, lifting upper and lower lids - get Medical Attention
~~INGESTION - do not induce vomiting. Get Medical Attention~~
INHALATION - remove to fresh air; if breathing has stopped apply artificial respiration and seek immediate medical attention.

SECTION VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS

Burning results in carbon dioxide and carbon monoxide

CONDITIONS TO AVOID

Excessive heat, sparks or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong acids or oxidizing materials

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Eliminate ignition sources, provide good ventilation, dike spill area, soak up with absorbant material and place in a closed container.

WASTE DISPOSAL
Incinerate in an approved incinerator or dispose of in a chemical landfill according to local, state and federal regulation.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION Use self-contained breathing apparatus where vapor concentration is above the TLV limits.

VENTILATION Adequate to keep vapor concentration below TLV limits

PROTECTIVE GLOVES Rubber gloves recommended
EYE PROTECTION Safety goggles or glasses

OTHER PROTECTIVE EQUIPMENT Eye bath and safety shower
HYGIENIC PRACTICES:
If contact is unavoidable, wear impervious protective gear

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Handle as a flammable liquid, Use non-sparking tools when handling this material. Use in cool ventilated area away from sparks and open flames.

OTHER PRECAUTIONS
Keep containers closed when not in use; protect drums from physical damage

HAZARD RATING

HEALTH ---------- 2

FLAMMABILITY ---------- 3

REACTIVITY ---------- 0

Least ------- 0
Slight ------ 1
Moderate ---- 2
High -------- 3
Extreme ----- 4

PERSONAL PROTECTION --- GENERAL

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.

V78 V T8

Piedmont Hub used to use this stop using about 2 yrs ago did use about 2 drums/mo

6

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

OCT 27 '86

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
3-Mar-86

INFORMATION TELEPHONE NO.
(216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER
V78 V T8

* - Trade Mark

PRODUCT NAME
Pipe Coating Varnish.

PRODUCT CLASS
Alkyd Varnish

Section II -- HAZARDOUS INGREDIENTS

CAS No.	INGREDIENT	PERCENT	TLV-PPM	TLV-MG/M3	LEL	V.P.
64742-48-9	V. M. & P. Naphtha.	35	300.	1350.	0.9	12.0
64742-47-8	Mineral Spirits.	25	100.	581.	1.0	2.0
1330-20-7	Xylene.	<5	100.	435.	1.0	5.9

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether

VAPOR DENSITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE VOLUME	WT/GAL
240 - 395	71.2	7.17

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT 60 F PMCC LEL 0.9

RED LABEL -- Flammable, Flash below 100 F

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed 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.

Continued on page 2

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II

EFFECTS OF OVEREXPOSURE

ACUTE: In a confined area vapors in high concentration are anesthetic. Overexposure may result in lightheadedness and staggering gait.
Irritant to skin and upper respiratory system.

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

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes.
Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

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

Protect against dust which may be generated by sanding or abrading the dried film.

VENTILATION

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

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 3

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- 1B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

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.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.

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

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

8

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
4-Sep-85

INFORMATION TELEPHONE NO.
(216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER
R1 K 4

* - Trade Mark

PRODUCT NAME
Paint Reducer, Mineral Spirits

PRODUCT CLASS
Reducer

Section II -- HAZARDOUS INGREDIENTS

CAS No.	INGREDIENT	PERCENT	TLV-PPM	TLV-MG/M3	LEL	V.P.
64742-47-8	Mineral Spirits.	100	100.	581.	1.0	2.0

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether

VAPOR DENSITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE VOLUME	WT/GAL
300 - 395	100.0	6.35

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT 105 F TCC LEL 1.0

Combustible, Flash above 99 and below 200 F

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed 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.

Continued on page 2

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II

EFFECTS OF OVEREXPOSURE

ACUTE: In a confined area vapors in high concentration are anesthetic. Overexposure may result in lightheadedness and staggering gait.
Irritant to skin and upper respiratory system.

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

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes.
Get medical attention.

If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give several glasses of water. Seek medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

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

VENTILATION

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

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 3

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- 2

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

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

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

B54XX

86A

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
11-Jul-86

INFORMATION TELEPHONE NO.
(216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME
Industrial Enamel, Non-Lead Colors

* - Trade Mark

PRODUCT NUMBERS AND COLORS

B54 A 12	Tower Gray	B54 R 28	Safety Red
B54 A 13	Slate Gray	B54 T 104	Ultradeep Base
B54 B 11	Black	B54 W 10	Brilliant White
B54 E 29	Safety Orange	B54 W 101	Pure White
B54 G 14	Cedar Green	B54 W 102	Midtone Base
B54 M 16	Walnut Brown	B54 W 103	Deeptone Base
B54 R 15	Deck Red	B54 Y 27	Safety Yellow

--- Including Non-Lead Tinted Colors ---

PRODUCT CLASS
Alkyd Enamel

Section II -- HAZARDOUS INGREDIENTS

CAS No.	Ingredient	% by Weight	ACGIH-TLV	OSHA-PEL	Units	V.P.
64742-47-8	Mineral Spirits.	35-45	100	500	PPM	2.0
13463-67-7	Titanium Dioxide.	0-25	10		Mg/M3	
1308-38-9	Chromium Oxide	0-5	.50		Mg/M3	
	No ingredient in this product is an IARC, NTP or OSHA listed carcinogen					
	Chromium III (as Cr) [Cr III present in B54G14 only.]	0.0-2.3	0.50		Mg/M3	

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether
VAPOR DENSITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE VOLUME	WT/GAL
300 - 395	55-60	8-10

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION — FLASH POINT 101 F PMCC — LEL 1.0
Combustible, Flash above 99 and below 200 F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed 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.

Continued on page 2

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.

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II

EFFECTS OF OVEREXPOSURE

ACUTE: Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possible death.

CHRONIC: Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, and urinary systems.
Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breating. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable

HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.

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 and extractability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Protect against hazardous dust or fumes which may be generated by sanding, wirebrushing, abrading, burning, brazing or welding of the dried film.

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

RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

Continued on page 3

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- 1B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS
This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.

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

HMIS Ratings

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

B54 Lead-Containing Colors on reverse.

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

B54XL
86A

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

INFORMATION TELEPHONE NO.
(216) 566-2902

DATE OF PREPARATION
11-Jul-86

Section I -- PRODUCT IDENTIFICATION

* - Trade Mark

PRODUCT NAME
Industrial Enamel, Lead-Containing Colors

PRODUCT NUMBERS AND COLORS
B54 E 19 OSHA Orange
B54 R 18 OSHA Red
B54 Y 17 OSHA Yellow
--- Including Lead-Containing Tinted Colors --

PRODUCT CLASS
Alkyd Enamel

Section II -- HAZARDOUS INGREDIENTS

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PEL	UNITS	V.P.
64742-47-8	Mineral Spirits.	40	100	500	PPM	2.0
13463-67-7	Titanium Dioxide.	0-5	10		Mg/M3	
1344-37-2	Lead Chromate. <I>	<15	0.05	0.05	Mg/M3	
7758-97-6	Lead Chromate. <I>		0.05	0.05	Mg/M3	
12656-85-8	Molybdate Orange. <I>		0.05		Mg/M3	

< > Ingredient is an IARC<I>, NTP<N> or OSHA<O> listed carcinogen

Lead (as Pb)	<11.5	0.05	0.05	Mg/M3
Chromium VI (as Cr)	<3.0	0.05		Mg/M3

For specific percent hazardous ingredients in each product, see Section X

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether
VAPOR DENSITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE VOLUME	WT/GAL
300 - 395	55-60	8-10

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT 101 F PMCC LEL 1.0
Combustible, Flash above 99 and below 200 F.

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed 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.

Continued on page 3

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.

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II

EFFECTS OF OVEREXPOSURE
ACUTE: Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possible death.
CHRONIC: Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, nervous, and reproductive systems (including embryotoxic effects).
Studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, however, the risk appears to be less significant with insoluble or highly soluble Chromium VI compounds.
Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

EMERGENCY AND FIRST AID PROCEDURES
If INHALED: If affected, remove from exposure. Restore breating. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section II
HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.

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 and extractability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
Before initial use, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Protect against hazardous dust or fumes which may be generated by sanding, wirebrushing, abrading, burning, brazing or welding of the dried film.

Continued on page 3

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

RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- 2

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS
This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.
CONTAINS LEAD. Do not apply on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.

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

Section X -- PERCENT HAZARDOUS INGREDIENTS

	B54E19	B54R18	B54Y17
Mineral Spirits.	40	40	40
Titanium Dioxide.	--	--	5
Lead Chromate. <I>	15	--	15
Molybdate Orange. <I>	<5	10	--
Lead (as Pb)	11.3	6.3	8.6
Chromium (as Cr VI)	2.8	1.2	1.5

HMIS Ratings

HEALTH	2*
FLAMMABILITY	2
REACTIVITY	0

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.
The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.