

## MATERIAL SAFETY DATA SHEET

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

EMERGENCY TELEPHONE NO.  
 (216) 566-2917

DATE OF PREPARATION  
 25-Jul-88

INFORMATION TELEPHONE NO.  
 (216) 566-2902

## Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER  
 R4 K 12

PRODUCT NAME  
 Paint Reducer, Exempt T

PRODUCT CLASS  
 Reducer

\* - Trade Mark

## Section II -- HAZARDOUS INGREDIENTS

CAS No.	INGREDIENT	% by WEIGHT	MSDS-11P	MSDS-11P	OSHA-PEL	UNITE	V.P.
42-89-8	lt. Aliphatic Hydrocarbon Solvent.	<5	100	500	PFM	53.0	
42-48-9	V. M. & P. Naphtha.	60	300		PFM	12.0	
08-88-3	Toluene.	15	100	200	PFM	22.0	
64-17-5	Ethanol	5	1000	1000	PFM	44.0	
78-83-1	2-Methyl-1-propanol	<5	50	100	PFM	8.7	
10-19-0	Isobutyl Acetate.	15	150	150	PFM	12.5	

## Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether

FLASH POINT -- 100.0 °F

VAPOR DENSITY -- Heavier than Air

RELATIVE VISCOSITY -- 100.0

BOILING RANGE -- 172-325 F

VOLATILE VOLUME -- 100.0 %

WT./GAL -- 5.48 lb.

VOC (Theoretical) -- 6.48 lb. 777 gm.

## Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION -- F

FLASH POINT -- 100 F

25 F TCC

LEL -- 0.9

RED LABEL -- Flammable, Flash below 100 F

EXTINGUISHING MEDIA  
 Carbon Dioxide, Dry Chemical, Foam

USUAL FIRE AND EXPLOSION HAZARDS  
 Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flames. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to respiration products may cause a health hazard. Symptoms may not be immediately apparent. Seek 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

## ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

## ACUTE Health Hazards

## EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

## 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.

## 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.

## CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, and cardio-vascular systems.

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

## 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 to determine the applicable EPA hazardous waste number.

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.

Continued on page 3

## 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 II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

## 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 FLAMMABLE. Keep away from heat, sparks, and open flames.

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

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

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

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88

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## Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME Acrylic Enamel Reducer  
\* - Trade Mark

PRODUCT NUMBERS AND COLORS  
R4 K 35 Standard  
R4 K 36 Warm Weather

PRODUCT CLASS Reducer

## Section II -- HAZARDOUS INGREDIENTS

CAS No.	DESCRIPTION	% BY WEIGHT	ACSDH-TLV	OSHA-PPEL	MSDS	V.P.
6472-09-8	Lt. Aliphatic Hydrocarbon Solvent.	0-30	100	500	PPM	53.0
108-88-3	Toluene.	25-35	100	200	PPM	22.0
100-41-4	Ethylbenzene	0-5	100	100	PPM	7.1
1330-20-7	Xylene.	5-45	100	100	PPM	5.9
64742-95-6	Light Aromatic Naphtha	0-5	100	200	PPM	3.8
67-56-1	Methanol	<5	200	200	PPM	92.0
111-76-2	2-Butoxyethanol	0-5	25 (Skin)	50	PPM	0.6
67-64-1	Acetone.	5-15	750	1000	PPM	180.0
112-07-2	2-Butoxyethyl Acetate.	5-15	50		PPM	1.0

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	132-384 F	VOLATILE VOLUME	100.0 %
		WT./GAL	6.7-7.2 lb.

## Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION RED LABEL -- Extremely Flammable, Flash below 21 F  
FLASH POINT 10 F TCC LEL 0.5

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

ROUTES OF EXPOSURE Exposure may be by INHALATION and/or SKIN or ETS contact, depending on conditions of use. Alcohols and acetates can be absorbed through the skin. Follow recommendations for proper use, ventilation, and personal protective equipment to minimize exposure.

ACUTE Health Hazards

EFFECTS OF OVEREXPOSURE Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

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

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None generally recognized.

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.

## CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, cardio-vascular, and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## 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 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.

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.

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## 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 II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

## 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 EXTREMELY FLAMMABLE. 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.

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.

## Section X -- PERCENT HAZARDOUS INGREDIENTS

	R4K35	R4K36
Lt. Aliphatic Hydrocarbon Solvent.	30	--
Toluene.	35	25
Ethylbenzene	--	<5
Xylene.	5	45
Light Aromatic Naphtha	--	<5
Methanol	<5	<5
2-Butoxyethanol	5	--
Acetone.	15	<5
2-Butoxyethyl Acetate.	5	15

HEALTH	3
FLAMMABILITY	3
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.