



Material Safety Data Sheet Index

October 2000



Click on a product name to jump to the proper MSDS page.

If you can't find your MSDS, call (216) 566-2902

TRI-FLOWTM Industrial Lubricant with Teflon[®] (Non-Aerosol)

TRI-FLOWTM Industrial Lubricant With Teflon[®] (Aerosol)

TRI-FLOWTM Synthetic Food Grade Grease (Non-Aerosol)

TRI-FLOW[™] Synthetic Food Grade Oil

TRI-FLOWTM Synthetic Grease With Teflon[®] (Aerosol)





TF-FG-GREASE 2000

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY

Consumer Group - Industrial

Cleveland, OH 44115

DATE OF PREPARATION

18-AUG-00

INFORMATION TELEPHONE NO.

EMERGENCY TELEPHONE NO.

(800) 251-2486

(216) 566-2917

Section 1 - Product Identification

PRODUCT NUMBERS

HMIS CODES

			Health	1
22002	22013	22022	Flammability	1
22003	22014	22023	Reactivity	0

22004 22020 22024 22012 22021

PRODUCT NAME

 $TRI-FLOW^{TM}$ Synthetic Food Grade Grease

PRODUCT CLASS

Lubricant

Section 2 - Hazardous Ingredients

INGREDIENT

ACGIH OSHA

CAS No.

% by WT

TLV PEL UNITS V.P.

No ingredients in this product are hazardous as defined by the Department of Labor.

Section 3 - Physical Data

PRODUCT WEIGHT -- 7.43 lb./gal. EVAPORATION RATE -- Slower than Ether

SPECIFIC GRAVITY -- 0.89 VAPOR DENSITY -- Heavier than Air BOILING POINT -- N.A. MELTING POINT -- N.A. VOLATILE VOLUME -- 0 % SOLUBILITY IN WATER -- N.A.

VOC (Theoretical) -- 0.00 lb. 0 qm. (less Federally Exempt Solvents)

Section 4 - Fire and Explosion Hazard Data

LEL UEL FLASH POINT >200 °F COC N.Ap. N.Ap.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not Applicable

SPECIAL FIRE FIGHTING PROCEDURES

Not Applicable

Continued on page 2

TF-FG-GREASE page 2

Section 5 - 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 upper respiratory system. In a confined area vapors in high concentration may cause headache, nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE

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.

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

Get medical attention.

If SWALLOWED: Get medical attention.

CHRONIC Health Hazards

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

Section 6 - Reactivity Data

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 7 - 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 is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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

Section 8 - 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 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Continued on page 3

TF-FG-GREASE 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 2. PROTECTIVE GLOVES

Required for long or repeated contact.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 - Precautions

DOL STORAGE CATEGORY

3B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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.

Section 10 - Other Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND % by WT % Element No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

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





TF-FG-GREASE-AER 2000

MANUFACTURER'S NAME EMERGENCY TELEPHONE NO.

THE SHERWIN-WILLIAMS COMPANY (216) 566-2917

Consumer Group - Industrial

Cleveland, OH 44115

DATE OF PREPARATION INFORMATION TELEPHONE NO.

23-AUG-00 (800) 251-2486

Section 1 - Product Identification

PRODUCT NUMBER HMIS CODES

Health 2
22020 Flammability 4
Reactivity 0

PRODUCT NAME

TRI-FLOW[™] Synthetic Grease With Teflon[®] (Aerosol)

PRODUCT CLASS

Aerosol Lubricant

Section 2 - Hazardous Ingredients

INGREDIENT ACGIH OSHA

CAS No. % by WT TLV PEL UNITS V.P.

Propane 10 2500 1000 PPM 760.00

74-98-6

Heavy Aliphatic Naphtha. 74 Not Established 0.50

68551-20-2

Section 3 - Physical Data

PRODUCT WEIGHT 6.43 lb/gal 770 g/l

SPECIFIC GRAVITY 0.77

BOILING POINT <0 - 550 F <-18 - 287 C

MELTING POINT Not Available

VOLATILE VOLUME 86 %

EVAPORATION RATE Faster than ether VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER N.A.

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 84.00 % Less Federally Exempt Solvents

Section 4 - Fire and Explosion Hazard Data

FLASH POINT LEL UEL Propellant < 0 F 0.6 9.5

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

TF-FG-GREASE-AER page 2

UNUSUAL FIRE AND EXPLOSION HAZARDS

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.

Section 5 - 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 conscious patient several glasses of water. Seek medical attention.

CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 6 - Reactivity Data

STABILITY -- Stable CONDITIONS TO AVOID None known.
INCOMPATIBILITY
None known.

TF-FG-GREASE-AER page 3

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide HAZARDOUS POLYMERIZATION Will not occur

Section 7 - 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.

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

Section 8 - 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 2 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 a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. PROTECTIVE GLOVES

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.

Section 9 - Precautions

DOL STORAGE CATEGORY

1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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.

OTHER PRECAUTIONS

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

TF-FG-GREASE-AER page 4

Section 10 - Other Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND % by WT % Element No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

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





TF-FG-OIL 2000

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY Consumer Group - Industrial

Cleveland, OH 44115

DATE OF PREPARATION

18-AUG-00

EMERGENCY TELEPHONE NO.

(216) 566-2917

INFORMATION TELEPHONE NO.

(800) 251-2486

Section 1 - Product Identification

PRODUCT NUMBERS

23011 23013

23012 23014 HMIS CODES

Health

Flammability Reactivity

2

1

PRODUCT NAME

 $TRI-FLOW^{TM}$ Synthetic Food Grade Oil

PRODUCT CLASS

Lubricant

Section 2 - Hazardous Ingredients

INGREDIENT

ACGIH OSHA

CAS No.

% by WT

TLVPEL UNITS

No ingredients in this product are hazardous as defined by the Department of Labor.

Section 3 - Physical Data

PRODUCT WEIGHT -- 7.00 lb./gal. EVAPORATION RATE -- Slower than Ether

VAPOR DENSITY -- Heavier than Air

SPECIFIC GRAVITY -- 0.84 BOILING POINT -- N.A.

MELTING POINT -- N.Ap.

SOLUBILITY IN WATER -- N.Av.

VOLATILE VOLUME -- 0 %
VOC (Theoretical) -- 0.00 lb.

0 gm. (less Federally Exempt Solvents)

Section 4 - Fire and Explosion Hazard Data

FLASH POINT

 $_{
m LEL}$ UEL

>200 °F PMCC

N.Ap. N.Ap.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not Applicable

SPECIAL FIRE FIGHTING PROCEDURES

Not Applicable

 $\mathsf{TF}\mathsf{-FG}\mathsf{-OIL}$ page 2

Section 5 - 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 upper respiratory system. In a confined area vapors in high concentration may cause headache, nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE

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: Get medical attention.

CHRONIC Health Hazards

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

Section 6 - Reactivity Data

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 7 - 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 is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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

Section 8 - 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.

TF-FG-OIL page 3

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. 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. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 - Precautions

DOL STORAGE CATEGORY

3B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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.

Section 10 - Other Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND % by WT % Element No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

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





TF-FG-OIL-AER 2000

MANUFACTURER'S NAME EMERGENCY TELEPHONE NO.

THE SHERWIN-WILLIAMS COMPANY (216) 566-2917

Consumer Group - Industrial

Cleveland, OH 44115

DATE OF PREPARATION INFORMATION TELEPHONE NO.

23-AUG-00 (800) 251-2486

Section 1 - Product Identification

PRODUCT NUMBER HMIS CODES

Health 2
23010 Flammability 4
Reactivity 0

PRODUCT NAME

TRI-FLOW[™] Synthetic Oil With Teflon[®] (aerosol)

PRODUCT CLASS

Aerosol Lubricant

Section 2 - Hazardous Ingredients

INGREDIENT ACGIH OSHA

CAS No. % by WT TLV PEL UNITS V.P.

Propane 8 2500 1000 PPM 760.00

74-98-6

Heavy Aliphatic Naphtha. 68 Not Established 0.50

68551-20-2

Section 3 - Physical Data

PRODUCT WEIGHT 6.47 lb/gal 774 g/l

SPECIFIC GRAVITY 0.78

BOILING POINT <0 - 550 F <-18 - 287 C

MELTING POINT Not Available

VOLATILE VOLUME 78 %

EVAPORATION RATE Faster than ether VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER N.A.

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 76.41 % Less Federally Exempt Solvents

Section 4 - Fire and Explosion Hazard Data

FLASH POINT LEL UEL Propellant < 0 F 0.6 9.5

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

TF-FG-OIL-AER page 2

UNUSUAL FIRE AND EXPLOSION HAZARDS

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.

Section 5 - 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 conscious patient several glasses of water. Seek medical attention.

CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 6 - Reactivity Data

STABILITY -- Stable CONDITIONS TO AVOID None known.
INCOMPATIBILITY
None known.

TF-FG-OIL-AER page 3

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 7 - 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.

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

Section 8 - 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 a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II. PROTECTIVE GLOVES

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.

Section 9 - Precautions

DOL STORAGE CATEGORY

1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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.

OTHER PRECAUTIONS

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

TF-FG-OIL-AER page 4

Section 10 - Other Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND % by WT % Element No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

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





TF-LUBE 2000

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY

Consumer Group - Industrial

Cleveland, OH 44115

DATE OF PREPARATION

23-AUG-00

EMERGENCY TELEPHONE NO. (216) 566-2917

INFORMATION TELEPHONE NO.

(800) 251-2486

Section 1 - Product Identification

22025 26020 29200

PRODUCT NUMBER

BER HMIS CODES Health

Healun

Flammability

Reactivity

2

PRODUCT NAME

TRI-FLOW[™] Industrial Lubricant with Teflon[®] (Non-Aerosol)

PRODUCT CLASS

Lubricant

Section 2 - Hazardous Ingredients

INGREDIENT			ACGIH	OSHA		
CAS No.	% by W	T 	TLV	PEL	UNITS	V.P.
Heavy Aliphatic Solvent. 64742-96-7	2	9	Not E	stablis	shed	1.00
Naphthenic Oil. 64742-63-8	2	3	5		MG/M3 as Mist	0.00
Heavy Naphthenic Petroleum Oil. 64742-52-5		2	5	5	MG/M3 as Mist	0.00
Highly refined Naphthenic Oil. 64742-53-6		4	5	5	MG/M3 as Mist	0.00
Heavy Mineral Oil. 64741-96-4	2	3	5	5	MG/M3 as Mist	0.10
Distillates, petroleum, solvent-64742-65-0	-degr.	4	5	5	MG/M3 as Mist	0.00
2-Methoxymethylethoxypropanol 34590-94-8		2 ST	100 EL 150		PPM (Skin) PPM (Skin)	0.40
Amyl Acetate. 628-63-7		3	100	100	PPM	4.00
Barium (as Ba; total)	0.	9				

TF-LUBE page 2

Section 3 - Physical Data

PRODUCT WEIGHT 7.30 lb/gal 875 g/l

SPECIFIC GRAVITY 0.88

BOILING POINT 288 - 701 F 142 - 371 C

MELTING POINT Not Available

VOLATILE VOLUME 38 %

EVAPORATION RATE Slower than ether VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER N.A.

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

2.57 lb/gal 308 g/l Less Federally Exempt Solvents

2.57 lb/gal 308 g/l Emitted VOC

Section 4 - Fire and Explosion Hazard Data

FLASH POINT LEL UEL 146 F TCC 0.6 7.5

FLAMMABILITY CLASSIFICATION

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.

Section 5 - 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.

Continued on page 3

TF-LUBE page 3

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: Get medical attention.

CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 6 - Reactivity Data

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section II HAZARDOUS POLYMERIZATION

Will not occur

Section 7 - 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 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 8 - 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 a properly fitted organic vapor/particulate respirator 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.

TF-LUBE page 4

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 - Precautions

DOL STORAGE CATEGORY

3A

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.

Section 10 - Other Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND Barium Compound.

% by WT % Element 3 0.9

TSCA CERTIFICATION

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





TF-LUBE-AER 2000

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY Consumer Group - Industrial

Cleveland, OH 44115

DATE OF PREPARATION

23-AUG-00 (216) 566-2902

Section 1 - Product Identification

PRODUCT NUMBER

20025 20027

HMIS CODES

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO.

(216) 566-2917

Health Flammability 4 Reactivity

PRODUCT NAME

TRI-FLOW[™] Industrial Lubricant With Teflon[®] (Aerosol)

PRODUCT CLASS

Aerosol Lubricant

Section 2 - Hazardous Ingredients

INGREDIENT CAS No.	% by WT	ACGIH TLV	OSHA PEL	UNITS		V.P.
Propane	10	2500	1000	PPM		760.00
74-98-6 Butane 106-97-8	10	800	800	PPM	ı	760.00
Heavy Aliphatic Solvent. 64742-96-7	24	Not	Establi	shed		1.00
Naphthenic Oil. 64742-63-8	18	5		Mg/M3	as Mist	0.00
Heavy Naphthenic Petroleum Oil. 64742-52-5	2	5	5	Mg/M3	as Mist	0.00
Highly refined Naphthenic Oil. 64742-53-6	3	5	5	Mg/M3	as Mist	0.00
Heavy Mineral Oil. 64741-96-4	19	5	5	Mg/M3	as Mist	0.10
Distillates, petroleum, solvent-	-degr. 3	5	5	Mg/M3	as Mist	0.00
2-Methoxymethylethoxypropanol 34590-94-8	2	100 STEL 150		PPM (S	•	0.40
Amyl Acetate. 628-63-7	2			PPM (S	DVTII)	4.00

0.7 Barium (as Ba; total)

TF-LUBE-AER page 2

Section 3 - Physical Data

PRODUCT WEIGHT 6.46 lb/gal 774 g/l

SPECIFIC GRAVITY 0.78

BOILING POINT <0 - 701 F <-18 - 371 C

MELTING POINT Not Available

VOLATILE VOLUME 56 %

EVAPORATION RATE Faster than ether VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER N.A.

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 48.20 % Less Federally Exempt Solvents

Section 4 - Fire and Explosion Hazard Data

FLASH POINT LEL UEL 40 F TCC 0.6 9.5

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

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.

Section 5 - 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.

TF-LUBE-AER page 3

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: Get medical attention.

CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 6 - Reactivity Data

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2 HAZARDOUS POLYMERIZATION

Will not occur

Section 7 - 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.

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

Section 8 - 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.

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. 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. PROTECTIVE GLOVES

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

TF-LUBE-AER page 4

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 - Precautions

DOL STORAGE CATEGORY

1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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.

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.

OTHER PRECAUTIONS

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

Section 10 - Other Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND Barium Compound.

% by WT % Element 3 0.7

TSCA CERTIFICATION

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