

MATERIAL SAFETY DATA SHEET

21010  
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Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	21010	HMIS CODES	
		Health	2
		Flammability	2
		Reactivity	0

PRODUCT NAME	TRI-FLOW* Superior Lubricant with Teflon*
MANUFACTURER'S NAME	THE SHERWIN-WILLIAMS COMPANY
	Consumer Group - Industrial
	Cleveland, OH 44115
DATE OF PREPARATION	25-JUN-03
EMERGENCY TELEPHONE NO.	(216) 566-2917
INFORMATION TELEPHONE NO.	(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
30	64742-96-7	Heavy Aliphatic Solvent		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	Not Available	
23	64742-63-8	Naphthenic Oil		
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
2	64742-52-5	Heavy Naphthenic Petroleum Oil		
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
4	64742-53-6	Highly refined Naphthenic Oil		
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
23	64741-96-4	Heavy Mineral Oil		0.1 mm
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
4	64742-65-0	Heavy Paraffinic Oil		
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
3	34590-94-8	2-Methoxymethylethoxypropanol		0.4 mm
		ACGIH TLV	100 ppm (skin)	
		ACGIH TLV	150 ppm (skin) STEL	
		OSHA PEL	100 ppm (skin)	
		OSHA PEL	150 ppm (skin) STEL	
3	628-63-7	Amyl Acetate		4 mm
		ACGIH TLV	100 ppm	
		OSHA PEL	100 ppm	
0.86		Barium (as Ba; total)		

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 Section 3 -- HAZARDS IDENTIFICATION  
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## ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

## EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper 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.

## CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

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 Section 4 -- FIRST AID MEASURES  
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- 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: Do not induce vomiting. Get medical attention immediately.

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 Section 5 -- FIRE FIGHTING MEASURES  
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FLASH POINT	LEL	UEL
150 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

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.

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 Section 6 -- ACCIDENTAL RELEASE MEASURES  
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## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

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

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 Section 7 -- HANDLING AND STORAGE  
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## STORAGE CATEGORY

DOL Storage Class IIIA

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

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.

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 Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## PRECAUTIONS TO BE TAKEN IN USE

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

## 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.

## OTHER PRECAUTIONS

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

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 Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES  
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PRODUCT WEIGHT	7.30 lb/gal	875 g/l
SPECIFIC GRAVITY	0.88	
BOILING POINT	288 - 500 F	142 - 260 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 Water and Federally Exempt Solvents
2.57 lb/gal	308 g/l	Emitted VOC

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 Section 10 -- STABILITY AND REACTIVITY  
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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

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 Section 11 -- TOXICOLOGICAL INFORMATION  
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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.

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 TOXICOLOGY DATA

CAS No.	Ingredient Name				
64742-96-7	Heavy Aliphatic Solvent	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-63-8	Naphthenic Oil	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-52-5	Heavy Naphthenic Petroleum Oil	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-53-6	Highly refined Naphthenic Oil	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64741-96-4	Heavy Mineral Oil	LC50	RAT	4HR	Not Available
		LD50	RAT		4999. mg/kg
64742-65-0	Heavy Paraffinic Oil	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
34590-94-8	2-Methoxymethylethoxypropanol	LC50	RAT	4HR	Not Available
		LD50	RAT		5135 mg/kg
628-63-7	Amyl Acetate	LC50	RAT	4HR	Not Available
		LD50	RAT		6500 mg/kg

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 Section 12 -- ECOLOGICAL INFORMATION  
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ECOTOXICOLOGICAL INFORMATION

No data available.

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 Section 13 -- DISPOSAL CONSIDERATIONS  
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 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/Provincial, and Local regulations regarding pollution.

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 Section 14 -- TRANSPORT INFORMATION  
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No data available.

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 Section 15 -- REGULATORY INFORMATION  
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## SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Barium Compound	3	0.8

## CALIFORNIA PROPOSITION 65

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

## TSCA CERTIFICATION

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

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 Section 16 -- OTHER INFORMATION  
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This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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.