

ITEM: 3KB67 - LUBE INDUSTRIAL 12 OZ

PICK REQ: 1109344855

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A5371

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - A5371

Associated Grainger Item: 3KB67 - LUBE INDUSTRIAL 12 OZ

MATERIAL SAFETY DATA SHEET

20000TF

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SECTION 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 20000TF

PRODUCT NAME: TRI-FLOW* SUPERIOR LUBRICANT WITH TEFLON* (AEROSOL)

MANUFACTURER'S NAME:
THE SHERWIN-WILLIAMS COMPANY
CONSUMER GROUP - INDUSTRIAL
CLEVELAND, OH 44115

EMERGENCY TELEPHONE NO.: (216) 566-2917

INFORMATION TELEPHONE NO.: (216) 566-2902

DATE OF PREPARATION: 29-MAR-03

HMS CODES:
HEALTH 2
FLAMMABILITY 4
REACTIVITY 0

SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% BY WT	CAS NO.	INGREDIENT	UNITS	VAPOR PRESSURE
10	74-98-6	PROPANE		760 MM
		ACGIH TLV	2500 PPM	
		OSHA PEL	1000 PPM	
10	106-97-8	BUTANE		760 MM
		ACGIH TLV	800 PPM	
		OSHA PEL	800 PPM	
24	64742-96-7	HEAVY ALIPHATIC SOLVENT		1 MM
		ACGIH TLV	NOT AVAILABLE	
		OSHA PEL	NOT AVAILABLE	
18	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	
3	64742-53-6	HIGHLY REFINED NAPHTHENIC OIL		
		ACGIH TLV	5 MG/M3 AS MIST	
		OSHA PEL	5 MG/M3 AS MIST	
19	64741-96-4	HEAVY MINERAL OIL		0.1 MM
		ACGIH TLV	5 MG/M3 AS MIST	
		OSHA PEL	5 MG/M3 AS MIST	
3	64742-65-0	HEAVY PARAFFINIC OIL		
		ACGIH TLV	5 MG/M3 AS MIST	
		OSHA PEL	5 MG/M3 AS MIST	
2	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
2	628-63-7	AMYL ACETATE		4 MM
		ACGIH TLV	100 PPM	
		OSHA PEL	100 PPM	
0.69		BARIUM (AS Ba; TOTAL)		

SECTION 3 -- HAZARDS IDENTIFICATION

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.

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.

ADDITIONAL INFORMATION:
COMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

SECTION 4 -- FIRST AID MEASURES

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 LAUNDRER 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.

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT: PROPELLANT <0 F

LEL: 0.6
UEL: 9.5

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERRED. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA. REMOVE WITH INERT ABSORBENT.

SECTION 7 -- HANDLING AND STORAGE

STORAGE CATEGORY: NFPA 30B LEVEL 3 AEROSOL

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
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.

SECTION 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE:
NONE REQUIRED FOR 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:
NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SK CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

OTHER PRECAUTIONS:
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT:
6.46 LB/GAL
774 G/L

SPECIFIC GRAVITY: 0.78

BOILING POINT: <0-500 F <-18 - 260 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 10 -- STABILITY AND REACTIVITY

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 11 -- TOXICOLOGICAL INFORMATION

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.

TOXICOLOGY DATA:

CAS NO. INGREDIENT NAME

74-98-6	PROPANE	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
106-97-8	BUTANE	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
64742-96-7	HEAVY ALIPHATIC SOLVENT	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
64742-63-8	NAPHTHENIC OIL	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
64742-52-5	HEAVY NAPHTHENIC PETROLEUM OIL	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
64742-53-6	HIGHLY REFINED NAPHTHENIC OIL	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
64741-96-4	HEAVY MINERAL OIL	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE 4999. MG/KG
64742-65-0	HEAVY PARAFFINIC OIL	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE NOT AVAILABLE
300-94-8	2-METHOXYMETHYLETHOXYPROPANOL	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE 5135 MG/KG
628-63-7	AMYL ACETATE	LC50 RAT 4HR LD50 RAT	NOT AVAILABLE 6500 MG/KG

SECTION 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

SECTION 13 -- DISPOSAL CONSIDERATIONS

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 14 -- TRANSPORT INFORMATION

NO DATA AVAILABLE.

SECTION 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% ELEMENT
	BARIUM COMPOUND	3	0.6

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.

SECTION 16 -- OTHER INFORMATION

PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF
THE CFR AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CFR.

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
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