

MATERIAL SAFETY DATA SHEET (MSDS)

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

 MATERIAL SAFETY DATA SHEET - A8327

Associated Grainger Items
 2PB97, 3KB67

20000

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 20000

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

HMS CODES:
 HEALTH 2
 FLAMMABILITY 4
 REACTIVITY 0

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: 10-OCT-05

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

% BY WT	CAS NO.	INGREDIENT	UNITS	VAPOR PRESSURE
10	74-98-6	PROPANE ACGIH TLV: 2500 PPM OSHA PEL: 1000 PPM		760 MM
10	106-97-8	BUTANE ACGIH TLV: 800 PPM OSHA PEL: 800 PPM		760 MM
24	64742-47-8	HEAVY ALIPHATIC SOLVENT ACGIH TLV: NOT AVAILABLE OSHA PEL: NOT AVAILABLE		0.01 MM
41	64742-52-5	HEAVY NAPHTHENIC PETROLEUM OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: 5 MG/M3 AS MIST		
2	64741-97-5	NAPHTHENIC OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: NOT AVAILABLE		
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 ACGIH TLV: 100 PPM (SKIN) ACGIH TLV: 150 PPM (SKIN) STEEL OSHA PEL: 100 PPM (SKIN) OSHA PEL: 150 PPM (SKIN) STEEL		0.4 MM
2	628-63-7	AMYL ACETATE ACGIH TLV: 100 PPM OSHA PEL: 100 PPM		4 MM

SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE:
 INHALATION OF VAPOR OR SPRAY MIST.
 EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE:

EYES: IRRITATION.

SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

INHALATION:
 IRRITATION OF THE 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.

SECTION 4 - FIRST AID MEASURES

EYES:
 FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.
 GET MEDICAL ATTENTION.

SKIN:

WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.
 REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE.

INHALATION:

IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING.
 KEEP WARM AND QUIET.

INGESTION:

DO NOT INDUCE VOMITING.
 GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:

PROPELLANT: <0 F

LEL: 0.6

UEL: 14.0

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 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 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: NOT AVAILABLE

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:

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:

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.

OTHER PRECAUTIONS:

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

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT:

6.50 LB/GAL

778 G/L

SPECIFIC GRAVITY: 0.78

BOILING POINT:

<0 - 500 F

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 WATER AND 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

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: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

106-97-8 BUTANE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

64742-47-8 HEAVY ALIPHATIC SOLVENT
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

64741-97-5 NAPHTHENIC OIL
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

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

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 TO DETERMINE THE APPLICABLE EPA
HAZARDOUS WASTE NUMBERS.

DO NOT INCINERATE, DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE
WITH FEDERAL, STATE/PROVINCIAL, 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	2	0.05

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS A CHEMICAL 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

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA
OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (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
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