

MATERIAL SAFETY DATA SHEET



STRATOS 32, 25, 29, 33, 46, 68

SECTION I

MANUFACTURER	MILES LUBRICANTS 66 MARINE STREET FARMINGDALE, NEW YORK 11735		
EMERGENCY TELEPHONE #	(800) 424-9300	DATE PREPARED	5/15/2010
INFORMATION TELEPHONE#	(877) 683-8086		

SECTION II - IDENTITY

SOLVENT REFINED HEAVY PARAFFINIC BASE OIL	> 99%
CASE #	64741-88-4
ZINC ALKYL DITHIOPHOSPHATE	< 1%
CASE #	4259-15-8
CAS NAME	SOLVENT REFINED PARAFFINIC

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT	> 675 F
VAPOR PRESSURE (mm Hg.)	< 0.1
SOLUBILITY IN WATER	NEGLIGIBLE
APPEARANCE AND ODOR	AMBER-COLORED LIQUID; LUBE OIL ODOR
SPECIFIC GRAVITY (H20=1)	0.86
VAPOR DENSITY (AIR = 1)	>10

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): > 3vu F (ASTM D-92)

FIRE AND EXPLOSION HAZARDS:

SLIGHTLY COMBUSTIBLE ! OSHA/NFPA CLASS-IIIB COMBUSTIBLE LIQUID. WHEN HEATED ABOVE ITS FLASH POINT, THIS MATERIAL WILL RELEASE FLAMMABLE VAPORS WHICH CAN BURN IN THE OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO AN IGNITION SOURCE. MISTS OR SPRAYS MAY BE FLAMMABLE AT TEMPERATURES BELOW THE NORMAL FLASH POINT. KEEP AWAY FROM EXTREME HEAT AND OPEN FLAME.

EXTINGUISHING MEDIA:

DRY CHEMICAL AND CARBON DIOXIDE. FOAM AND WATER FOG ARE EFFECTIVE BUT CAUSE FROTHING.

SPECIAL FIREFIGHTING PROCEDURES:

FOR FIRES INVOLVING THIS MATERIAL. DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCIES. IF FIREFIGHTERS CANNOT WORK UPWIND TO THE FIRE. RESPIRATORY PROTECTIVE EQUIPMENT MUST BE WORN. COOL TANKS AND CONTAINER EXPOSED TO FIRE WITH WATER. BURNING LIQUID WILL FLOAT ON WATER. NOTIFY APPROPRIATE AUTHORITIES IF LIQUID ENTERS SEWER / WATERWAYS.

HAZARD RATING

0= LEAST
1= SLIGHT
2= MODERATE
3= HIGH
4= EXTREME

NFPA / HMIS CLASSIFICATION

HEALTH	0 / 0
FIRE	1 / 1
REACTIVITY	0 / 0
PERSONAL PROTECTION INDEX	X

SECTION V - HEALTH HAZARDS

SUMMARY OF ACUTE HAZARDS:

NOT EXPECTED TO PRESENT A SIGNIFICANT HEALTH HAZARD UPON SHORT-TERM EXPOSURE.

ROUTE OF EXPOSURE - SIGNS AND SYMPTOMS

INHALATION - NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.

EYE CONTACT- NO IRRITATION IS EXPECTED FROM SHORT TERM EXPOSURE.

SKIN ABSORPTION - NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT-TERM EXPOSURE.

SKIN IRRITATION - NO IRRITATION IS EXPECTED FROM SHORT-TERM EXPOSURE.

INGESTION - NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON SHORT- TERM EXPOSURE.

CHRONIC HAZARDS - PROLONGED AND / OR REPEATED CONTACT WITH THIS MATERIAL PRODUCE SKIN IRRITATION AND INFLAMMATION.

SPECIAL HEALTH EFFECTS - PERSONNEL WITH PRE-EXISTING SKIN DISORDERS SHOULD AVOID CONTACT.

SECTION VI - PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES

RESPIRATORY NONE IS NEEDED UNDER ANTICIPATED USE CONDITIONS WITH ADEQUATE VENTILATION. IF EXPOSURE EXCEEDS THE OCCUPATIONAL EXPOSURE LIMITS, FOLLOW OSHA STANDARDS OR EQUIVALENT AND WEAR PROPER NIOSH / MSHA - APPROVED RESPIRATORY EQUIPMENT.

SECTION VI - PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES - CONT.

EYE SAFETY GLASSES SHOULD BE ADEQUATE PROTECTION UNDER MOST CONDITIONS OF USE. WEAR GOGGLES AND/OR FACE SHIELD IF SPLASHING ()R SPRAYING IS LIKELY. ESPECIALLY IF HEATED ABOVE 125 F. HAVE SUITABLE EYE WASH WATER AVAILABLE.

SKIN AVOID PROLONGED AND/OR REPEATED SKIN CONTACT, OR WEAR IMPERVIOUS PROTECTIVE CLOTHING. WHEN LEAVING WORK, WASH HANDS / EXPOSED SKIN WITH SOAP AND WATER.

ENGINEERING CONTROLS USE ADEQUATE VENTILATION KEEP OIL MISTS OF THIS MATERIAL BELOW APPLICABLE CONTROLS STANDARDS.

OTHER HYGIENIC AND WORK PRACTICES WASH HANDS WITH PLENTY OF SOAP AND WATER BEFORE EATING. DRINKING, SMOKING, AND OR USE OF TOILET FACILITIES. DO NOT USE GASOLINE, SOLVENTS, KEROSENE, OR HARSH ABRASIVE SKIN CLEANERS FOR WASHING EXPOSED SKIN AREAS. TAKE A SHOWER AFTER WORK IF GENERAL CONTACT OCCURS. REMOVE OIL-SOAKED CLOTHING AND LAUNDRER BEFORE REUSE. LAUNDRER OR DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

VII. EMERGENCY AND FIRST AID

INHALATION VAPORIZATION IS NOT EXPECTED AT AMBIENT TEMPERATURES AND THIS MATERIAL IS NOT EXPECTED TO BE AN INHALATION PROBLEM UNDER ANTICIPATED CONDITIONS OF USE. IN CASE OF VAPOR EXPOSURE MOVE PERSON TO FRESH AIR.

EYE CONTACT FLUSH EYES WITH CLEAN, LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE EYELIDS. IF PAIN OR REDNESS PERSISTS AFTER FLUSHING, OBTAIN MEDICAL ATTENTION.

SKIN CONTACT REMOVE BY WIPING; THEN WASH SKIN THOROUGHLY WITH PLENTY OF SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND THOROUGHLY CLEAN BEFORE REUSE, DISCARD CONTAMINATED LEATHER GLOVES AND SHOES.

VIII. SPILL AND DISPOSAL

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

CONTAIN SPILL AND PREVENT FROM ENTERING ALL WATER BODIES, IF POSSIBLE. SAFELY STOP FLOW OR SPILL. EVACUATE NON-ESSENTIAL PERSONNEL FROM IMMEDIATE SPILL AREA DUE TO SLIPPING HAZARDS. IN URBAN AREA, CLEANUP AS SOON AS POSSIBLE; IN NATURAL ENVIRONMENTS CLEANUP ON ADVICE FROM ECOLOGISTS. THIS MATERIAL WILL FLOAT ON WATER. ABSORBENT MATERIALS AND PADS CAN BE USED. COMPLY WITH ALL APPLICABLE LAWS. SPILLS MAY NEED TO BE REPORTED TO THE NATIONAL RESPONSE CENTER (800) 424-8802. THE SPILLED MATERIAL AND ANY SOIL OR WATER WHICH IT HAS CONTACTED MAY BE HAZARDOUS TO ANIMAL/AQUATIC LIFE.

WASTE DISPOSAL METHODS MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONDITIONS OF USE MAY CAUSE THIS MATERIAL TO BECOME A "HAZARDOUS WASTE", AS DEFINED BY STATE OR FEDERAL LAWS. USE APPROVED TREATMENT, TRANSPORTERS, AND DISPOSAL SITES IN COMPLIANCE WITH ALL APPLICABLE LAWS. IF SPILL IS INTRODUCED INTO A WASTE-WATER TREATMENT SYSTEM, CHEMICAL AND BIODEGRADABLE IF GRADUALLY EXPOSED TO MICROORGANISMS. POTENTIAL TREATMENT METHODS INCLUDE LAND FARMING, INCINERATION. AND LAND DISPOSAL, IF PERMITTED.

IX. ADDITIONAL PRECAUTIONS

HANDLING, STORAGE, AND DECONTAMINATION PROCEDURES TO AVOID PRODUCT DEGRADATION, WATER CONTAMINATION SHOULD BE AVOIDED AND MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. PERIODS OF EXPOSURE TO HIGH TEMPERATURES (> 200 F) SHOULD BE MINIMIZED. PRODUCT DEGRADATION MIGHT INCREASE HEALTH HAZARD RISKS.

GENERAL COMMENTS

TRANSPORTATION CLASSIFICATIONS

U. S. DEPARTMENT OF TRANSPORTATION (DOT)

HAZARD CLASS	NON-REGULATED
SHIPPING NAME	NOT APPLICABLE
IDENTIFICATION NUMBER	NOT APPLICABLE

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