

Section 1 – MANUFACTURER INFORMATION

Manufacturer	IMS Company 10373 Stafford Road Chagrin Falls, OH 44023-5296 WEB: www.imscompany.com	Emergency Phone Prepared by Prepared/Revised E-mail	800-424-9300 Product Safety Advisor January 1, 2013 sales@imscompany.com
---------------------	---	--	---

Products:

Item # 137087 Oil System Flushing Fluid

Product Use: To flush and clean heat-transfer oil systems.**Hazardous Material Information System**

Health 0	Flammability 1	Reactivity 0	Protection X
0 Normal use Material	0 Will Not Burn	0 Stable	X = Consult the
1 Slight Hazard (temporary)	1 Possible to Burn	1 Unstable if Heated	MSDS and
2 Health Affected (lengthy)	2 Burns if Heated	2 Violent Chemical Change	your supervisor
3 Extreme Danger	3 Easily Burns	3 Shock and Heat Sensitive	for your special
4 Severe or Fatal	4 Very Easily Burns	4 May Explode	workplace need

NOTE The HMIS may not be enough hazard information for this chemical in all workplaces. The HMIS system requires employee training about the system and about information in this MSDS.

II. INGREDIENTS

COMPONENT NAME	HAZARDOUS IN BLEND	PERCENTAGE		COMPONENT EXPOSURE LIMITS	
		MIN	MAX	AS OIL MIST	UNITS
Heavy Hydrotreated Naphthenic Distillates	NO		100	OSHA PEL ACGIH TLV	5 mg/M3 5 mg/M3

III. HEALTH EFFECT INFORMATION

EYE CONTACT	MINIMALLY IRRITATING TO EYES ON DIRECT CONTACT.
SKIN CONTACT	MAY CAUSE MODERATE IRRITATION ON PROLONGED OR REPEATED CONTACT. MAY AGGRAVATE PRE-EXISTING SKIN DISORDERS.
INHALATION	NOT EXPECTED TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS. AEROSOLIZATION OR MISTING SHOULD BE AVOIDED. INHALATION OF A LARGE SINGLE DOSE OR REPEATED SMALL DOSES OF MIST MAY CAUSE IRRITATION TO RESPIRATORY TRACT. MAY AGGRAVATE PRE-EXISTING RESPIRATORY, PULMONARY AND LUNG DISORDERS.
INGESTION	PRACTICALLY NON-TOXIC UNLESS ASPIRATION OCCURS. ASPIRATION MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.
CAUTION	PULMONARY ASPIRATION HAZARD - CAN CAUSE SEVERE OR FATAL LUNG DAMAGE IF ASPIRATED.

IV. EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT	IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
SKIN CONTACT	WASH WITH SOAP AND WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, OBTAIN MEDICAL ASSISTANCE. WASH CLOTHING BEFORE REUSE.
INHALATION	VAPOR PRESSURE IS VERY LOW. VAPOR INHALATION UNDER AMBIENT CONDITIONS IS NORMALLY NOT A PROBLEM. IF OVERCOME BY VAPOR FROM HOT PRODUCT, IMMEDIATELY REMOVE FROM EXPOSURE AND CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR HAS STOPPED, START RESUSCITATION; ADMINISTER OXYGEN, IF AVAILABLE. IF OVEREXPOSED TO OIL MIST, REMOVE FROM EXPOSURE UNTIL EXCESSIVE OIL MIST CONDITION SUBSIDES.
INGESTION	DO NOT INDUCE VOMITING. DO NOT GIVE LIQUIDS. IF VOMITING OCCURS, LOWER HEAD BETWEEN KNEES TO AVOID ASPIRATION. OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE IS GONE.

V. PERSONAL HEALTH PROTECTION INFORMATION

EYE PROTECTION	SPLASH PROOF GOGGLES RECOMMENDED.
SKIN PROTECTION	USE IMPERVIOUS SYNTHETIC RUBBER CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE.
RESPIRATORY PROTECTION	RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED, USE NIOSH CERTIFIED ORGANIC VAPOR RESPIRATOR WITH DUST/MIST FILTER.
VENTILATION	IF VAPOR OR MIST IS GENERATED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATION BELOW THE SPECIFIED EXPOSURE LIMITS.

VI. FIRE PROTECTION INFORMATION

FLASH POINT COC	>320°F / >160°C			
AUTOIGNITION TEMPERATURE	>650°F / >343°C			
FLAMMABLE LIMITS IN AIR % VOL.	LOWER	NO DATA	UPPER	NO DATA
EXTINGUISHING MEDIA	FOAM, WATER SPRAY (FOG), DRY CHEMICAL, CARBON DIOXIDE, AND VAPORIZING LIQUID TYPE.			
SPECIAL FIRE FIGHTING PROCEDURES	USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROVIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP A LEAK. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES. MINIMIZE BREATHING OF GASES, VAPOR, FUMES OR DECOMPOSITION PRODUCTS. USE SUPPLIED-AIR BREATHING EQUIPMENT FOR ENCLOSED OR CONFINED SPACES.			

VII. REACTIVITY DATA

STABILITY	STABLE	CONDITIONS TO AVOID	SOURCE OF IGNITION
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR		
INCOMPATIBILITY, MATERIALS TO AVOID	STRONG OXIDIZERS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE, CALCIUM HYPOCHLORITE, ETC., PRESENTS EXPLOSION HAZARD		
HAZARDOUS DECOMPOSITION PRODUCTS	COMBUSTION MAY PRODUCE CARBON MONOXIDE AND OTHER ASPHYXIANTS		

VIII. ENVIRONMENTAL

STEPS TO BE TAKEN IF MATERIAL IS RELEASED / SPILLED	CONTAIN SPILL IMMEDIATELY. REMOVE ALL SOURCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH AS SAND, CLAY, ETC. . DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. NOTIFY APPROPRIATE AUTHORITIES OF SPILL.
WASTE DISPOSAL METHODS	PRODUCT, AS SUPPLIED, DOES NOT MEET THE CHARACTERISTICS OF A HAZARDOUS WASTE AS DEFINED IN 40 CFR 261.21-24. IF MIXED WITH OTHER PRODUCTS, WASTE MIXTURE MUST BE CHARACTERIZED. DO NOT DISPOSE OF THIS PRODUCT IN DRAINS OR STORM SEWERS. DO NOT DISPOSE OF THIS PRODUCT IN A LANDFILL WITHOUT PRIOR SOLIDIFICATION. WASTE PRODUCT SHOULD BE RECYCLED. CONSIDER WASTE BROKERING.

IX. HANDLING AND STORAGE

STORE IN CLOSED AND LABELED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. NFPA CLASS IIIB STORAGE.

X. PHYSICAL PROPERTIES

BOILING POINT	>520°F / >271°C (10% Fraction)	PERCENT VOLATILE	NIL
MELTING POINT	-51°F	VAPOR DENSITY (AIR=1)	>5 AIR=1
APPEARANCE	CLEAR, PALE STRAW TO WATER WHITE	EVAPORATION RATE (EE=1)	1000X SLOWER
ODOR	SLIGHT OILY.	SPECIFIC GRAVITY	0.910 WATER=1
SOLUBILITY	SOLUBLE IN HYDROCARBONS, NIL IN WATER	VAPOR PRESSURE	<0.0001 mm HG@ 68°F/20°C

XI. REGULATORY INFORMATION

DOT HAZARD CLASS - NOT REGULATED.

US OSHA COMMUNICATION STANDARD - PRODUCT COMPLIES WITH 29CFR 1910.1200 AND IS NOT HAZARDOUS.

SARA TITLE III (302) (304) (312) (313) - NO REPORTABLE SUBSTANCES. SARA TITLE III (311) - DELAYED (CHRONIC) HEALTH EFFECTS.

ALL COMPONENTS ARE LISTED ON THE US EPA/TSCA INVENTORY OF CHEMICALS.

RCRA INFORMATION: THE UNUSED PRODUCT IS NOT LISTED BY THE EPA AS A HAZARDOUS WASTE (40CFR, PART 2610), SHOULD NOT FAIL THE CHARACTERISTICS TEST UNLESS MIXED WITH OTHER PRODUCTS WHICH WOULD CAUSE IT TO FAIL THE TEST AND IS NOT FORMULATED WITH PCB'S OR THE METALS CITED IN THE TOXICITY TESTS.