

**MSDS DATA SHEET**

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Part Number: 26098419

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FID#: 00350844 VER-DT: 09/11/01

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SECTION 01: CHEMICAL PRODUCT & COMPANY ID  
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PRODUCT PRIMARY NAME: P/N 26098420 SLIP JOINT LUBE

PLANT SYNONYMS: SLIP JOINT LUBRICANT

- > 26098419 - KIT
- > 26098420 - GREASE

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND LUBRICANTS

LAST UPDATED DATE: 2001-09-11

MANUFACTURER'S ID (MID): 000555657

MANUFACTURER'S NAME: DELPHI SAGINAW STEERING SYS. - SAGINAW

MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 517-757-5380

3900 HOLLAND ROAD

SAGINAW MI 48601

US

SECTION 1 - OTHER INFORMATION: EMERGENCY OVERVIEW: PHYSICAL APPEARANCE: GRAY PASTE. IMMEDIATE CONCERNS: SEVERAL REPEATED OR PROLONGED EXPOSURES (24 TO 48 HOURS) MAY IRRITATE SKIN. REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN SENSITIZATION.

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SECTION 02: COMPOSITION & INGREDIENT INFO  
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CAS#	FORMULATION	W/V	CHEMICAL NAME
001305620	= 16.0000/ 0.0000%	W	CALCIUM HYDROXIDE
001306065	= 5.0000/ 0.0000%	W	Hydroxylapatite (Ca5(OH)(PO4)3)
007782425	= 25.0000/ 0.0000%	W	GRAPHITE
009003274	= 4.0000/ 0.0000%	W	PROPENE, 2-METHYL-, POLYMERS
068037014	= 32.0000/ 0.0000%	W	1-Decene, homopolymer, hydrogenate
*	d		
068953582	R 1.0000/ 10.0000%	W	QUATERNARY AMMONIUM COMPOUNDS, BIS
*			(HYDROGENATED TALLOW ALKYL)DIMETHY
*			L-, salt with BENTONITE

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SECTION 03: HAZARDS IDENTIFICATION  
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PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR = Y

EYE PRIMARY ENTRY ROUTE INDICATOR = Y

INHALATION PRIMARY ENTRY ROUTE INDICATOR = Y

INGESTION PRIMARY ENTRY ROUTE INDICATOR = Y

EFFECTS OF OVEREXPOSURE - SKIN: ACUTE HEALTH EFFECTS: A SINGLE REPEATED OR PROLONGED EXPOSURES (24-48 HOURS) MAY IRRITATE. REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN SENSITIZATION. CHRONIC HEALTH EFFECTS: REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN SENSITIZATION. EFFECTS OF OVEREXPOSURE - EYE: ACUTE HEALTH EFFECTS: DIRECT CONTACT

IRRITATES SLIGHTLY WITH REDNESS AND SWELLING.  
EFFECTS OF OVEREXPOSURE - INHALATION: ACUTE HEALTH EFFECTS: NO IRRITATION TO EYES AND RESPIRATORY PASSAGES. NO INJURY IS LIKELY FROM RELATIVELY SHORT EXPOSURES OF LESS THAN 8 HOURS.  
EFFECTS OF OVEREXPOSURE - INGESTION: ACUTE HEALTH EFFECTS: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY CAUSE DIGESTIVE DISCOMFORT.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

ADDITIONAL HEALTH HAZARD DATA: WHEN HEATED TO TEMPERATURES EXCEEDING 150C IN THE PRESENCE OF AIR, THE PRODUCT CAN FORM FORMALDEHYDE VAPORS. FORMALDEHYDE IS AN KNOWN SKIN AND RESPIRATORY SENSITIZER, AND AN

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SECTION 04: FIRST AID MEASURES  
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EMERGENCY FIRST AID PROCEDURES - SKIN: CONTACT: REMOVE FROM SKIN IMMEDIATELY AND IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION OR ILL EFFECTS DEVELOP OR PERSIST.  
EMERGENCY FIRST AID PROCEDURES - EYES: CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.  
EMERGENCY FIRST AID PROCEDURES - INHALATION: INHALATION IS UNLIKELY. FIRST AID SHOULD NOT BE NEEDED. IF FUMES FROM OVERHEATED MATERIAL ARE INHALED, REMOVE TO FRESH AIR AND MONITOR FOR RESPIRATORY DISTRESS. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.  
EMERGENCY FIRST AID PROCEDURES - INGESTION: NO FIRST AID SHOULD BE

NOTES TO PHYSICIAN: TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE.

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SECTION 05: FIRE-FIGHTING MEASURES  
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SPECIAL FIRE FIGHTING PROCEDURES: EXTINGUISHING MEDIA: ON LARGE FIRES USE DRY CHEMICAL, FOAM, OR WATER SPRAY. ON SMALL FIRES USE CARBON DIOXIDE, DRY CHEMICAL, OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE-EXPOSED CONTAINERS. FIRE FIGHTING INSTRUCTIONS: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING LARGE FIRES INVOLVING CHEMICALS. DETERMINE THE NEED TO EVACUATE OR ISOLATE THE AREA ACCORDING TO LOCAL EMERGENCY PLAN. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

NFPA CODES:

NFPA HEALTH CODE = 1  
NFPA REACTIVITY CODE = 0

AUTO-IGNITION TEXT: NOT DETERMINED.

FLASH POINT TEXT: NOT APPLICABLE-SOLID.

SECTION 5 - OTHER INFORMATION: HAZARDOUS COMBUSTION PRODUCTS: THERMAL BREAKDOWN DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCTS: METAL OXIDES, CARBON OXIDES, TRACE OF INCOMPLETELY BURNED CARBON COMPOUNDS, PHOSPHORUS OXIDES, AND FORMALDEHYDE. NFPA SPECIAL HAZARD: NONE.

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SECTION 06: ACCIDENTAL RELEASE MEASURES  
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EQUIPMENT AS DESCRIBED IN SECTION 8 OF THIS MSDS. SPILL CLEANUP: WIPE UP OR SCRAPE UP MATERIAL AND CONTAIN FOR SALVAGE OR DISPOSAL. CLEAN

AREA AS NEEDED TO ELIMINATE SLIPPING HAZARD. FINAL CLEANING MAY REQUIRE USE OF STEAM, SOLVENTS, OR DETERGENTS. LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF RELEASES. YOU WILL NEED TO DETERMINE WHICH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS ARE APPLICABLE. SECTIONS 13 AND 15 OF THIS MSDS PROVIDE INFORMATION REGARDING CERTAIN FEDERAL AND STATE REQUIREMENTS.

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SECTION 07: HANDLING AND STORAGE  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: WHEN HEATED TO TEMPERATURES EXCEEDING 150C IN THE PRESENCE OF AIR, THE PRODUCT CAN FORM FORMALDEHYDE VAPORS. SAFE HANDLING CONDITIONS MAY BE MAINTAINED BY FOR FORMALDEHYDE. HANDLING: USE WITH ADEQUATE VENTILATION. AVOID EYE CONTACT. AVOID SKIN CONTACT. STORAGE: STORE AWAY FROM OXIDIZING MATERIALS.

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SECTION 08: EXPOSURE CONTROLS - PROTECTION  
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EYE PROTECTION: SAFETY GLASSES AS A MINIMUM.

RESPIRATORY PROTECTION: NONE SHOULD BE NEEDED.

ENGINEERING CONTROLS: LOCAL EXHAUST VENTILATION SHOULD NOT BE REQUIRED FOR NORMAL USE OF THIS MATERIAL.

WORKPLACE/HYGIENIC PRACTICES: PERSONAL HYGIENE PRACTICES: WASH AT MEALTIMES AND AT END OF SHIFT. CONTAMINATED CLOTHING AND SHOES SHOULD NOTE: THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING OF THE MATERIAL. USE AT ELEVATED TEMPERATURES MAY REQUIRE ADDED PRECAUTIONS.

PROTECTIVE GLOVES (SPECIFY TYPE): SILVERSHIELD, 4H.

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SECTION 09: PHYSICAL & CHEMICAL PROPERTIES  
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VOLATILE ORGANIC COMPOUND: 0.00LB/GAL  
THEORETICAL VOC: 0.00 BY W

BOILING POINT TEXT: NOT DETERMINED.

MELTING/FREEZE POINT TEXT: NOT DETERMINED.

SPECIFIC GRAVITY VALUES: = 1.3010

SOLUBILITY IN WATER TEXT: NOT DETERMINED.

PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: NOT APPLICABLE.

APPEARANCE: GRAY TO BLACK PASTE.

ODOR: SLIGHT ODOR.

PHYSICAL STATE: PAS

SECTION 9 - OTHER INFORMATION: VOLATILE CONTENT: NOT APPLICABLE.

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SECTION 10: STABILITY & REACTIVITY  
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STABILITY - TEXT: STABLE AT NORMAL TEMPERATURES AND STORAGE CONDITIONS.  
CONDITIONS TO AVOID: NO SPECIAL REQUIREMENTS. INCOMPATIBILITY WITH  
OTHER MATERIALS: OXIDIZING AGENTS CAN CAUSE A REACTION.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL BREAKDOWN DURING FIRE OR VERY  
HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION  
PRODUCTS: METAL OXIDES, CARBON OXIDES, TRACE OF INCOMPLETELY BURNED  
CARBON COMPOUNDS, PHOSPHORUS OXIDES, AND FORMALDEHYDE.

HAZARDOUS POLYMERIZATION INDICATOR: N  
HAZARDOUS POLYMERIZATION TEXT: WILL NOT OCCUR.

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SECTION 11: TOXICOLOGICAL INFORMATION  
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TOXICOLOGICAL DATA UNLIMITED TEXT: MUTAGENICITY: POLYISOBUTYLENE  
ASSAY WITH METABOLIC ACTIVATION. TOXICOLOGICAL INFORMATION: COMPLETE  
INFORMATION NOT YET AVAILABLE.

CARCINOGENICITY: NO KNOWN CARCINOGENS ARE CONTAINED IN THIS PRODUCT.  
WHEN HEATED TO TEMPERATURES EXCEEDING 150C IN THE PRESENCE OF AIR, THE  
PRODUCT CAN FORM FORMALDEHYDE VAPORS. FORMALDEHYDE IS A POTENTIAL  
CANCER HAZARD.

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SECTION 12: ECOLOGICAL INFORMATION  
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ECOLOGICAL INFORMATION: THE ECOLOGICAL EFFECTS OF THIS MATERIAL HAVE  
NOT BEEN DETERMINED.

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SECTION 13: DISPOSAL CONSIDERATIONS  
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WASTE DISPOSAL METHOD: FEDERAL HAZARD WASTE CODE: NOT APPLICABLE.  
CHARACTERISTIC WASTE: IGNITABLE: NOT APPLICABLE. CORROSIVE: NOT  
APPLICABLE. REACTIVE: NOT APPLICABLE. TCLP: NOT APPLICABLE. DISPOSE OF  
IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL  
REGULATIONS.

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SECTION 14: TRANSPORT INFORMATION  
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DOT INFORMATION: PROPER SHIPPING NAME, HAZARDOUS TECHNICAL NAME, HAZARD  
CLASS, UN/NA NUMBER, PACKAGING GROUP: NOT APPLICABLE.

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SECTION 15: REGULATORY INFORMATION  
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SARA 311/312 HAZARD INDICATORS:  
IMMEDIATE HEALTH INDICATOR = Y  
FIRE INDICATOR = Y  
SUDDEN PRESSURE RELEASE INDICATOR = N  
REACTIVITY INDICATOR = N

SECTION 15 - OTHER INFORMATION: TSCA STATUS: ALL CHEMICAL SUBSTANCES  
FOUND IN THIS PRODUCT COMPLY WITH THE TOXIC SUBSTANCES CONTROL ACT  
INVENTORY REPORTING REQUIREMENTS. 302-EXTREMELY HAZARDOUS SUBSTANCE:  
NOT APPLICABLE. TPQ/RQ-THRESHOLD PLANNING QUANTITY/REPORTABLE QUANTITY:  
NOT APPLICABLE. 313-SUBJECT TO THE REPORTING REQUIREMENTS OF SARA  
SECTION 313 (1986) AND 40 CFR 372: NOT APPLICABLE. CERCLA RQ  
(LBS)-COMPREHENSIVE EMERGENCY RESPONSE, COMPENSATION AND LIABILITY ACT:  
NOT APPLICABLE. HAP-CLEAN AIR ACT HAZARDOUS AIR POLLUTANT: NOT  
APPLICABLE. SUPPLEMENTAL STATE COMPLIANCE INFORMATION: MASSACHUSETTS:  
GRAPHITE (77820-42-5): 25%; CALCIUM HYDROXIDE (1305-62-0): 16%,

PARAFFIN OIL (8012-95-1): 14%. NEW JERSEY: GRAPHITE (77820-42-5): 25%;  
CALCIUM HYDROXIDE (1305-62-0): 16%, PARAFFIN OIL (8012-95-1): 14%,  
PHOSPHATE, HYDRATED (1306-06-5): 5%, POLYISOBUTYLENE (9003-27-4): 4%.  
PENNSYLVANIA: GRAPHITE (77820-42-5): 25%; CALCIUM HYDROXIDE  
(1305-62-0): 16%, PARAFFIN OIL (8012-95-1): 14%, HYDROGENATED DECENE  
HOMOPOLYMER (68037-01-4): 32%, TRICALCIUM PHOSPHATE, HYDRATED  
(1306-06-5): 5%, POLYISOBUTYLENE (9003-27-4): 4%.

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SECTION 16: OTHER INFORMATION  
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RCRA HAZARDOUS WASTE NUMBER TEXT: FEDERAL HAZARD WASTE CODE: NOT  
APPLICABLE. CHARACTERISTIC WASTE: IGNITABLE: NOT APPLICABLE. CORROSIVE:  
NOT APPLICABLE. REACTIVE: NOT APPLICABLE. TCLP: NOT APPLICABLE.

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