



CARBOGRAF INDUSTRIAL S.A. DE C.V.

GHS SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME:	LUBRIGRAF-10
SYNONYMS:	GRAPHITE, GRAPHITE LUBRICANT
CHEMICAL CLASSIFICATION:	CARBON
RECOMMENDED USE:	MANDREL LUBRICANT
SUPPLIER INFORMATION:	CARBOGRAF INDUSTRIAL SA DE CV CARR. MIGUEL ALEMAN KM 29.8 #2526 PESQUERIA NL. MÉXICO, CP 66650
EMERGENCY CONTACT NUMBER:	+52 1 81 8253 2268
EMISSION DATE	MARCH 2016
REVISION DATE	MARCH 2020

SECTION 2: HAZARD IDENTIFICATION

PHYSICAL HAZARD IDENTIFICATION				
CLASSIFICATION OF SUBSTANCE				
PHYSICAL HAZARD NOT CLASSIFIED				
HEALTH HAZARD	HAZARD STATEMENT SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) MAY HARM RESPIRATORY AND CARDIOVASCULAR SYSTEM	CATEGORY 2	SIGNAL WORD ATTENTION	SYMBOL 
	EYE IRRITATION	2B	ATTENTION	
ENVIRONMENTAL HAZARD	NOT CLASSIFIED			
SAFETY PRECAUTIONS				
HAZARD INDICATION	H373	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE		
	H320	CAUSES EYE IRRITATION		
PREVENTION	P264: WASH HANDS WITH SOAP AND WATER AFTER HANDLING P260: DO NOT BREATHE DUST			
RESPONSE	P314: GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL P305+P351+P338: IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES, REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+P313: IF EYE IRRITATION PERSISTS,SEEK MEDICAL ATTENTION.			
DISPOSAL	P501: DISPOSE PRODUCT AND ALL RECIPIENTS ACCORDING TO NATIONAL, STATE AND LOCAL NORMS.			
OTHER HAZARDS	CONTAINS TRACES OF MATERIALS THAT MAY CAUSE HARM TO THE FOLLOWING ORGANS: KIDNEY, LUNGS, GASTROINTESTINAL TRACT, CARDIOVASCULAR SYSTEM, UPPER RESPIRATORY TRACT AND SKIN. MAY FORM EXPLOSIVE MIX OF AIR AND DUST WHEN DISPERSED.			

SECTION 3: COMPOSITION/INFORMATION INGREDIENTS

COMPOSITION	CAS #	UN #	PERCENTAGE
GRAPHITE	77828-42-5	NOT AVAILABLE	> 70%
1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL	4719-04-4	2763	< 1%

SECTION 4: FIRST AID

INHALATION:	KEEP PATIENT CALM, REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION
INGESTION:	HEALTH RISK IS NOT EXPECTED VIA INGESTION. MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT.
EYE CONTACT:	FLUSH OPEN EYES WITH RUNNING WATER FOR A FEW MINUTES, REMOVE CONTACT LENSES IF PRESENT AND CONTINUE WASHING
SKIN CONTACT:	WASH WITH SOAP AND WATER
TREATMENT	TREAT ACCORDING TO SYMPTOM

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING METHOD	WATER, FOAM, SAND OR DRY CHEMICAL
UNSUITABLE EXTINGUISHING METHODS	HIGH PRESSURE WATER SPRAY ON LIT POWDER MAY FURTHER SPREAD FIRE.
SPECIAL HAZARDS ARISING FROM THE CHEMICAL	IN CASE OF FIRE, CARBON MONOXIDE, CARBON DIOXIDE AND HARMFUL GASES MAY FORM. GRAPHITE REACTS IN AN OXYGEN CONTAINING ATMOSPHERE AT TEMPERATURES ABOVE 350°C
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	USE SELF CONTAINED BREATHING APPARATUS IN ADDITION TO STANDARD PROTECTION, AVOID DISPERSION OF DUST

SECTION: 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	WEAR APPROVED NIOSH APPROVED DUST MASK (P100, N95), SAFETY GOGGLES, WORK GLOVES AND ADEQUATE CLOTHING THAT PREVENT DIRECT CONTACT WITH MATERIAL.
ENVIRONMENTAL PRECAUTIONS	PREVENT MATERIAL FROM ENTERING WATER SEWERAGE
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	AVOID GENERATING DUST, AVOID CONTACT WITH ELECTRICAL CIRCUITRY OR IGNITION SOURCES, USE A VACUUM CLEANER TO GATHER MATERIAL. YOU CAN SPRINKLE WATER ON MATERIAL AND CONTAIN IT WITH DIKES TO PREVENT SPREADING.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	AVOID DUST FROM GATHERING ON SURFACE IT COULD FORM AN EXPLOSIVE MIXTURE IF A SIGNIFICANT CONCENTRATION IS ALLOWED INTO THE ATMOSPHERE.
CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES	STORE IN A COOL DRY VENTILATED AREA. STORE AWAY FROM OXIDIZING AGENTS LIKE FLUORINE, CHLORINE TRIFLUORIDE AND POTASSIUM PEROXIDE

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

GRAPHITE OCCUPATIONAL EXPOSURE LIMIT VALUE IN MEXICO: 2 MG/M3 PPT OCCUPATIONAL EXPOSURE LIMIT VALUE IN THE U.S: 2.5 MG/M3 TWA 1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL DNEL 19 MG/M3	
CONTROL PARAMETERS	MAINTAIN CONCENTRATIONS OF DUST BELOW THE EXPOSURE LIMIT VALUES.
INDIVIDUAL PROTECTION METHODS SUCH AS PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	IF EXPOSURE LIMITS ARE EXCEEDED OR IF IRRITATION IS EXPERIENCED, NIOSH APPROVED RESPIRATORY (N95, P100) PROTECTION SHOULD BE WORN.
SKIN PROTECTION	APPROPRIATE CHEMICAL PROTECTIVE GLOVES AND CLOTHING SHOULD BE USED WHEN HANDLING THIS MATERIAL
EYE PROTECTION	AVOID EYE CONTACT, WEAR SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES.
SKIN PROTECTION	SUFFICIENT PROTECTIVE CLOTHING SHOULD BE WORN TO MINIMIZE SKIN EXPOSURE WHEN HANDLING THIS MATERIAL. WASH CONTAMINATED CLOTHING BEFORE RE-USE.
THERMAL HAZARDS	NO THERMAL RISK

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

I. APPEARANCE	GRAY DARK TALC
II. ODOR	GLUE
III. ODOR THRESHOLD	NOT AVAILABLE
IV. pH	NOT AVAILABLE
V. MELTING POINT	NOT AVAILABLE
VI. INITIAL BOILING POINT/ AND BOILING RANGE	NOT APPLICABLE
VII. FLASH POINT	NOT APPLICABLE

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Email: info@carbografi.com

VIII. EVAPORATION RATE	NOT APPLICABLE
IX. FLAMMABILITY	NOT APPLICABLE
X. UPPER/LOWER FLAMMABILITY	NOT AVAILABLE
XI. VAPOR PRESSURE	NOT APPLICABLE
XII. VAPOR DENSITY	NOT APPLICABLE
XIII. RELATIVE DENSITY	1.7 APPROXIMATELY
XIV. SOLUBILITY	INSOLUBLE
XV. WATER/OCTANOL PARTITION COEFFICIENT	NOT APPLICABLE
XVI. AUTO IGNITION TEMPERATURE	NOT APPLICABLE
XVII. DECOMPOSITION TEMPERATURE	NOT AVAILABLE
XVIII. VISCOSITY	NOT AVAILABLE
XIX. MOLECULAR WEIGHT	NOT AVAILABLE
XX. OTHER RELEVANT DATA	DUST MAY FORM AN EXPLOSIVE MIXTURE IN THE AIR. NON-OXIDIZING

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	THIS PRODUCT IS STABLE AND DOES NOT REACT UNDER NORMAL CONDITIONS
STABILITY	THIS PRODUCT IS STABLE UNDER NORMAL CONDITIONS
POSSIBILITY OF HAZARDOUS REACTIONS	NO HAZARDOUS REACTION OCCURS DURING STORAGE AND USE
CONDITIONS TO AVOID	AVOID RAISING TO A DECOMPOSITION AND CONTACT WITH INCOMPATIBLE MATERIALS
INCOMPATIBLE MATERIALS	OXIDIZING AGENTS, AVOID CONTACT WITH ACID

SECTION 11: TOXICOLOGICAL INFORMATION:

NUMERICAL MEASURES OF TOXICITY	<p>THERE IS NO ESTABLISHED LC50 OR LD50 FOR THIS MIXTURE.THE FOLLOWING COMPONENTS HAVE BEEN DETERMINED</p> <p>GRAPHITE: DETERMINATION IN RATS: REPEATED EXPOSURE DOSIS: 12 MG/M3 ENTRY: INHALATION EFFECTS: PULMONARY FIBROSIS AND AFFECTED RESPIRATORY SYSTEM</p> <p>1,3,5, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL DL50 1000 MG/KG (ORAL/RATS) DL50 >4000 MG/KG (ORAL/RATS) CL50 (AEROSOL) 0.371 MG/L (INHALATION)</p>
RELATED SYMPTOMS	COUGH, DIFFICULTY BREATHING, BLACK SPUTUM,DECREASED PULMONARY FUNCTIONALITY, PULMONARY FIBROSIS
DELAYED AND IMMEDIATE EFFECTS/CHRONIC EFFECTS DUE TO SHORT AND LONG RANGE EXPOSURE	CHRONIC CONTACT TO DUST, EXCEEDING THE LIMIT OF EXPOSURE MAY CAUSE PNEUMOCONIOSIS, PULMONARY FIBROSIS (LUNG DISEASE)
MUTAGENICITY	NOT CLASSIFIED

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INHALATION TOXICITY	NOT CLASSIFIED
CARCINOGENICITY	NOT CLASSIFIED
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	NOT CLASSIFIED

SECTION 12: ECOLOGICAL INFORMATION:

ECOTOXICITY	<p>GRAPHITE THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS TO THE ENVIRONMENT, THIS DOES NOT EXCLUDE THE POSSIBILITY OF HARM TO THE ENVIRONMENT WHEN LARGE QUANTITIES OF WASTE ARE DISPOSED OF INTO IT.</p> <p>1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL: FRESH WATER: PNEC VALUE 0.007 MG/L</p> <p>SEA WATER: PNEC VALUE 0.001 MG/L</p> <p>SEDIMENT (FRESH WATER): PNEC VALUE 0.03 MG/KG</p> <p>SEDIMENT (SALT WATER): PNEC VALUE 0.003 MG KG</p> <p>STUDIES ARE CONSIDERED RELIABLE AND SUITABLE FOR CLASSIFICATION PURPOSES ACCORDING TO REGULATION (EC) NO. 1272/2008. THE LOWEST EC50 OF AVAILABLE WATER TOXICITY STUDIES IS 6.6 MG / L (ALGAS). THE LOWEST EC10 IS 3.4 MG / L DETERMINED IN THE SAME TEST. IN ADDITION, THE MONO CONSTITUENT SUBSTANCE IS BIODEGRADABLE, THEREFORE, THE SUBSTANCE DOES NOT NEED TO BE CLASSIFIED BY AQUATIC ACUTE TOXICITY AND CHRONIC AQUATIC TOXICITY ACCORDING TO REGULATION (EC) NO. 1272/2008.</p>
PERSISTENCE AND DEGRADABILITY	<p>GRAPHITE NO DATA AVAILABLE</p> <p>1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL: THE MONO CONSTITUENT SUBSTANCE IS BIODEGRADABLE.</p>
BIOACCUMULATIVE POTENTIAL	<p>GRAPHITE NO DATA AVAILABLE</p> <p>1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL:</p> <p>THERE IS NO EXPERIMENTAL DATA ON BIOACCUMULATION. TO THE LOW COEFFICIENT OF OCTANOL WATER PARTITION AND THE ESTIMATED BIOCONCENTRATION FACTOR OF THE DEGRADATION PRODUCTS AND CONSTITUENTS, BIOACCUMULATION IS NOT EXPECTED.</p>
MOBILITY IN SOIL	<p>GRAPHITE NO KNOWN DANGER</p> <p>1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL: SOIL: PNEC VALUE 0.002 MG/ KG SOIL</p>

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	<p>DISPOSE PRODUCT AND ALL RECIPIENTS ACCORDING TO NATIONAL, STATE AND LOCAL NORMS.</p> <p>PREVENT MATERIAL FROM ENTERING WATER SEWERAGE, GROUNDWATER OR SOIL. REPORT ANY INFRINGEMENT TO AUTHORITIES IF NECESSARY.</p>
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SECTION 14: TRANSPORTATION INFORMATION

TRANSPORTATION INFORMATION	GRAPHITE IS NOT LISTED AS A HAZARDOUS MATERIAL. HOWEVER, INFORMATION ABOUT PRODUCT MIXTURE IS NOT AVAILABLE.
UN NUMBER	1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL: # 2763
DOT	NOT AVAILABLE
SCT	NOT AVAILABLE

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SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THIS PRODUCT	<p>MÉXICO</p> <p>GRAPHITE IS NOT REGULATED AS A DANGEROUS SUBSTANCE</p> <p>THIS SAFETY DATA SHEET HAS BEEN ELABORATED IN ACCORDANCE WITH NORMA OFICIAL MEXICANA (NMX-R-019-SCFI-2011)</p> <p>NORMA OFICIAL MEXICANA NOM-165-SEMARNAT-2013, LISTs SUBSTANCES SUBJECT TO REPORTS FOR THE REGISTRATION OF EMISSIONS AND TRANSFER OF POLLUTANTS.THIS MIX IS NOT CLASSIFIED IN IT.</p> <p>UNITED STATES (TSCA)</p> <p>1,2,3, TRIAZINE -1,3,5 (2H,4H,6H) TRIETHANOL DNEL 19 MG/M3 IS LISTED IN THE TOXIC SUBSTANCES CONTROL ACT</p>
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SECTION 16: OTHER INFORMATION

BIBLIOGRAPHIC REFERENCES	<ul style="list-style-type: none"> - NORMA OFICIAL MEXICANA (NMX-R-019-SCFI-2011) - NORMA OFICIAL MEXICANA (NOM-018-STPS-20165) - HARMONIZED SYSTEM FOR IDENTIFICATION AND COMMUNICATION OF HAZARDS AND RISKS FOR HAZARDOUS CHEMICAL SUBSTANCES IN WORK CENTERS. - SISTEMA GLOBALMENTE ARMONIZADO DE CLASIFICACIÓN Y ETIQUETADO DE PRODUCTOS QUÍMICOS (SGA). 6TH EDITION. - ECHA EUROPEAN CHEMICAL AGENCY.
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FLAMMABLE CONCENTRATIONS COULD BE FORMED IN THE AIR WHILE PROCESSING THIS PRODUCT. AVOID CONFINEMENT AND PROCESS IN A WELL VENTILATED AREA. RESPECT THE MAXIMUM LEVELS ALLOWED. USERS OF THIS PRODUCT MUST CONDUCT FLAMMABILITY TESTS BEFORE USE IF DUST WILL BE GENERATED DURING USE.

THE INFORMATION IS CONSIDERED CORRECT BUT IS NOT EXHAUSTIVE AND IS USED ONLY AS GUIDANCE. IT IS BASED ON THE CURRENT KNOWLEDGE AND IS APPLICABLE TO THE SAFETY PRECAUTIONS APPROPRIATE FOR THE PRODUCT

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