

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME & SYNONYMS:	GRAPHITE IN ISOPROPANOL	TRADE NAME & SYNONYMS:	NEOLUBE NO. 2
CHEMICAL FAMILY:	GRAPHITE IN ISOPROPANOL	FORMULA:	TRADE SECRET
PROPER SHIPPING NAME:	ISOPROPANOL	HAZARD CLASS:	3-FLAMMABLE LIQUID
UN NUMBER:	UN1219	PACKING GROUP:	II
MANUFACTURER:	HURON INDUSTRIES, INC.	MANUFACTURER'S PHONE NUMBER:	810-984-4213
MANUFACTURER'S ADDRESS:	P.O. BOX 610104 PORT HURON, MI 48061-0104	Huron Industries, Inc., ER Company: INFOTRAC 24-Hour Number: 1-800-535-5053	
PREPARED BY:	DEBRA SULLIVAN	DATE PREPARED:	January 4, 2011

*Debra Sullivan*UN1219, ISOPROPANOL, 3, II
ERG GUIDE 129-FLAMMABLE LIQUID
NMFC NUMBER: 42690, SUB 2, FREIGHT CLASS 65**2. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW:	DANGER! TOXIC IF SWALLOWED. EYE IRRITANT. HARMFUL IF SWALLOWED. SKIN IRRITANT. EXTREMELY FLAMMABLE. BLACK LIQUID.	EYE:	Will Cause Eye Irritation. The Vapor and the Liquid May Cause Burning, Intense Irritation and Excessive Watering of the Eye.
SKIN CONTACT:	Irritating to the Skin. May Be Absorbed Through the Skin. Repeated or Prolonged Contact May Cause Defatting of the Skin Resulting in Dryness, Cracking and Dermatitis.	INHALATION:	Respiratory Irritant. The Vapor Has Anesthetic Properties and When Inhaled at Concentrations above the Occupational Exposure Limit, it May Cause Respiratory Irritation, Headache, Fatigue, Dizziness and Incoordination. Avoid Breathing Vapors or Mists.
INGESTION:	Toxic. May Cause Irritation of Mouth, Throat and Digestive Tract and Depression of the Central Nervous System. May Cause Nausea, Vomiting and Diarrhea. Aspiration into the Lungs May Cause Chemical Pneumonitis, Which Can Be Fatal.		

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY:	PIGMENT DISPERSION IN SOLVENT			EXPOSURE LIMITS:
COMPONENT	CAS NUMBER	CONCENTRATION (% BY WEIGHT)	ACGIH	OSHA
ISOPROPANOL	67-63-0	60-100	400 PPM STEL 200 PPM TWA	400 PPM TWA; 980 MG/M ³ TWA
GRAPHITE	7782-42-5	1-5	2 MG/M ³ TWA (RESPIRABLE FRACTION, ALL FORMS EXCEPT GRAPHITE FIBERS)	15 MPPCF TWA

4. FIRST-AID MEASURES

EYE:	Immediately Irrigate with Eyewash Solution or Clean Water, Holding the Eyelids Apart, for a Least 10 Minutes.	SKIN CONTACT:	Wash Skin with Soap and Water. Obtain Medical Attention.
INHALATION:	Remove to Fresh Air. Get Medical Attention If Irritation Persists.	INGESTION:	If Swallowed, Do Not Induce Vomiting. Keep at Rest. Get Prompt Medical Attention. If Vomiting Occurs Spontaneously, Keep Patient's Head below Waist to Prevent Aspiration.

5. FIRE FIGHTING MEASURES

AUTOIGNITION:	Not Available	FLASH POINT:	52°F (PENSKY-MARTENS CLOSED TESTER) 11.11°C (PENSKY-MARTENS CLOSED TESTER)
EXTINGUISHING MEDIA:	Water Fog; Alcohol Foam; Co2; Dry Chemical; Do Not Use Direct Water Stream on Burning Liquid.	SPECIAL FIRE FIGHTING PROCEDURES:	A Self Contained Breathing Apparatus and Suitable Protective Clothing Should Be Worn in Fire Conditions.; Cool Exposed Equipment with Water Spray.
FIRE AND EXPLOSION HAZARDS:	Dangerous Fire Hazard When Exposed to Heat or Flame.	HAZARDOUS COMBUSTION PRODUCTS:	Carbon Monoxide, Carbon Dioxide, Unknown Hydrocarbons.
LOWER EXPLOSION LIMIT (%):	2.0%/VOL	UPPER EXPLOSION LIMIT %:	12.0%/VOL

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:	No Smoking, Flames, or Flares in Hazard Area. Keep Unnecessary People Away; Isolate Hazard Area and Deny Entry. Ventilate Area. Provided it Is Safe to Do So, Isolate the Source of the Leak. Do Not Allow to Enter Drains, Sewers or Watercourses. Absorb Spillages onto Sand, Earth or Any Suitable Absorbent Material. Scrape up and Place in Suitably Labeled Container for Disposal. For Safety and Environmental Precautions, Please Review Entire Material Safety Data Sheet for Necessary Information.
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7. HANDLING AND STORAGE

STORAGE TEMPERATURE:	<90°F	SPECIAL SENSITIVITY:	Avoid Excessive Heat
HANDLING/STORAGE:	Keep Away from Heat, Sources of Ignition and Direct Sunlight. Keep Containers Properly Sealed When Not in Use. Keep in a Well Ventilated Place. Store in a Cool, Dry Area Away from Heat, Sparks or Fire. All Handling Equipment must Be Properly Grounded.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION REQUIREMENTS:	Explosion-proof Exhaust Ventilation. Local Exhaust	EYE PROTECTION REQUIREMENTS:	Safety Glasses, Goggles or Face Shield to Protect Against Splashing.
GLOVE REQUIREMENTS:	Impervious Neoprene or Rubber Gloves Are Recommend.	CLOTHING REQUIREMENTS:	Appropriate Protective Clothing and Equipment Is Recommended to Minimize Skin Contact with this Substance.
CHANGE/REMOVAL OF CLOTHING:	Remove Contaminated Clothing and Launder Before Reuse.	WASH REQUIREMENTS:	Wash Before Eating, Drinking, or Using Toilet Facilities.
RESPIRATOR REQUIREMENTS:	Avoid Prolonged or Repeated Breathing of Vapor or Mists. If Exposure May or Does Exceed Occupational Exposure Limits, Use a Niosh Approved Respirator to Prevent Overexposure.		

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE:	Mixture	PHYSICAL FORM:	Liquid
COLOR:	Black	BOILING POINT:	35°C
VISCOSITY:	50-200	SOLUBILITY IN WATER:	Miscible

PH AS IS:	Not Applicable	OXIDIZING PROPERTIES:	Not Applicable
PARTITION COEFFICIENT:	Not Applicable	VOLATILE ORGANIC COMPOUNDS:	766g/Liter
SPECIFIC GRAVITY (WATER=1):	0.791	BULK DENSITY:	6.5 - 6.7
EVAPORATION RATE:	1 (n-BUTYL ACETATE=1)	VAPOR PRESSURE (mmHg):	32.1 mm Hg
VAPOR DENSITY (AIR=1):	1.0	VOLATILES:	None
10. STABILITY AND REACTIVITY			
STABILITY:	Stable	STABILITY DETAIL:	Stable
MATERIALS TO AVOID:	Oxidizers	CONDITIONS TO AVOID:	Avoid High Temperatures, Oxidizing Substances.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Monoxide, Carbon Dioxide, Unknown Hydrocarbons.	HAZARDOUS POLYMERIZATION CONDITIONS:	Hazardous Polymerization Will Not Occur.
11. TOXICOLOGICAL INFORMATION			
ROUTE OF ENTRY:	Eye Contact; Skin Contact; Inhalation; Ingestion		
CARCINOGEN COMPONENT:	IARC (GROUP)	NTP	OSHA SUBSTANCE SPECIFIC REGULATION
There Is No Evidence That this Product Poses a Carcinogenic Risk under Normal Conditions of Handling and Use.			
PRODUCT TOXICOLOGY INFORMATION:	Symptoms May Include Nausea and Vomiting, Abdominal Discomfort, Dizziness and Headache.		
ACUTE (SHORT TERMS) EFFECTS OF EXPOSURE:	A Moderate Irritant to Skin, Eyes, Respiratory System and Gastrointestinal Tract.	CHRONIC (LONG TERM) EFFECTS OF EXPOSURE:	Eyes; Skin; Respiratory System; Gastrointestinal; Liver; Kidneys; Cardiovascular System; Central Nervous System.
COMPONENT	TOXICITY	NOTES ON ORAL TOXICITY	
ISOPROPANOL	ORAL LD50: RAT 5045 MG/KG ORAL LD50: MOUSE 3600 MG/KG ORAL LD50: DOG 4797 MG/KG ORAL LD50: RABBIT 6410 MG/KG ORAL LD50: RABBIT 8000 MG/KG	Slightly Toxic. May Cause Irritation of Mouth, Throat, and Digestive Tract and Depression of the Central Nervous System. May Cause Nausea, Vomiting and Diarrhea.	
COMPONENT	DERMAL TOXICITY	NOTES ON DERMAL TOXICITY	
ISOPROPANOL	DERMAL LD50: RABBIT 12800 MG/KG	Repeated or Prolonged Skin Contact May Result in Mild Irritation. May Be Absorbed Through the Skin. Repeated or Prolonged Contact May Cause Defatting of the Skin Resulting in Dryness, Cracking and Dermatitis.	
COMPONENT	INHALATION TOXICITY	NOTES ON INHALATION TOXICITY	
ISOPROPANOL	INHALATION LC50 (4HR): RAT 16000 PPM INHALATION LC50 (3HR): MOUSE 12800 PPM	Vapor May Be Irritant to the Respiratory Tract. The Vapor Has Anesthetic Properties and When Inhaled at Concentrations above the Occupational Exposure Limit, it May Cause Respiratory Irritation, Headache, Fatigue, Dizziness and Incoordination.	
COMPONENT		NOTES ON EYE IRRITATION	
ISOPROPANOL		Will Cause Eye Irritation. Contact with Eyes Causes Redness and Discomfort Which Is Transient.	
12. ECOLOGICAL INFORMATION			
POTENTIAL EFFECT ON ENVIRONMENT:	Do Not Allow to Enter Drains, Sewers or Watercourses.	MOBILITY:	The Product Is Soluble in Water
POTENTIAL TO BIOACCUMULATE:	Unknown	AQUATIC TOXICITY:	None Established
13. DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHODS:	Disposal Should Be in Accordance with Local, State or National Legislation.	EMPTY CONTAINER WARNINGS:	Empty Containers May Contain Product Residue: Follow MSDS and Label Warnings Even after They Have Been Emptied
14. TRANSPORTATION INFORMATION			
This Section Provided for General Information Only. The Shipping Description below May Not Represent Requirements for All Modes of Transportation, Packaging, Shipping Methods or Locations Outside of the United States.			
For More Complete Transportation Regulatory Information Please Refer to the Shipping Documents Accompanying the Shipment of this Product.			
PROPER SHIPPING NAME:	ISOPROPANOL	HAZARD CLASS:	3
U.N. NUMBER:	UN1219	PACKING GROUP:	II
PRIMARY LABEL:	FLAMMABLE LIQUID	FLASH POINT:	52°F (PENSKY-MARTENS CLOSED TESTER) 11.1°C (PENSKY-MARTENS CLOSED TESTER)
IMO MFAG:	SEE TABLES 1-15 BASED ON SYMPTOMS.		
The Information Provided Herein May Not Include the Impact of Additional Regulatory Requirements (Eg, for Materials Meeting the Definition of a Hazardous Waste under RCRA, Hazardous Substances under CERCLA, And/of Marine Pollutants under CWA or Other Similar Federal, State or Local Laws) or Any Associated Exceptions or Exemptions under Regulations Applicable to the Transport of this Material.			
15. REGULATORY INFORMATION			
TSCA:	This Product Is Manufactured in Compliance with All Provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 Et. Seq.	SARA-Section 313 (Superfund Amendments and Reauthorization Act of 1986 - 40 CFR 372)	
CALIFORNIA PROPOSITION 65:	None Reportable	ISOPROPYL ALCOHOL	67-63-0 95.06214 (% BY WEIGHT)
ESTIMATED HMIS RATINGS:	HEALTH-2 FLAMMABILITY-4	REACTIVITY-0	PERSONAL PROTECTION-B
ESTIMATED NFPA RATINGS:	HEALTH-2 FLAMMABILITY-4	REACTIVITY-0	
16. OTHER INFORMATION			
THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.			
N/E = NOT ESTABLISHED , N/A = NOT APPLICABLE			

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