

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
CHEMICAL NAME & SYNONYMS:	GRAPHITE IN ISOPROPANOL	TRADE NAME & SYNONYMS:	NEOLUBE NO. 1
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	INFOTRAC: 1-800-535-5053 U.S. (HURON 89770)	
PREPARED BY:	DEBRA HARDY <i>Debra Hardy</i>	DATE PREPARED:	January 8, 2014
UN1219, ISOPROPANOL, 3, II ERG GUIDE 129-FLAMMABLE LIQUID NMFC NUMBER: 42690, SUB 2, FREIGHT CLASS 65			
2. HAZARDS IDENTIFICATION			
PHYSICAL STATE:	Liquid	HMIS	HEALTH: 2
COLOR:	Black		FLAMMABILITY: 3
ODOR:	Alcohol		PHYSICAL HAZARD: 0
RELEVANT ROUTES OF EXPOSURE:	Skin, Inhalation, Eyes		PERSONAL PROTECTIONS: See MSDS Section 8
INHALATION:	This Product Is Irritating To The Respiratory System. Excessive Inhalation Of This Material Causes Headache, Dizziness, Nausea And Incoordination.		
EYE CONTACT:	This Product Is Severely Irritating To The Eyes And May Cause Irreversible Damage Including Burns And Blindness.		
INGESTION:	Small Amounts Of This Product, If Aspirated Into The Lungs, May Cause Mild To Severe Pulmonary Injury. May Be Harmful If Swallowed. Ingestion Can Cause Gastrointestinal Irritation, Nausea, Vomiting And Diarrhea. May Cause Dizziness, Incoordination, Headache, Nausea And Vomiting.		
DANGER	FLAMMABLE! CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF SWALLOWED. ABSORBED THROUGH SKIN OR INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. This Material Is Considered Hazardous By The OSHA Hazardous Communication Standard (29 CFR 1910.1200). See Section 11 for additional toxicological information.		
3. COMPOSITION/INFORMATION ON INGREDIENTS			
HAZARDOUS COMPONENT	CAS NUMBER	%	
2-PROPANOL	67-63-0	60-100	
GRAPHITE	7782-42-5	1-5	
4. FIRST AID MEASURES			
INHALATION:	If Mist Or Vapor Of This Product Is Inhaled, Remove Person Immediately To Fresh Air. Seek Medical Attention If Symptoms Develop Or Persist.		
EYE:	In Case Of Contact With The Eyes, Rinse Immediately With Plenty Of Water For 15 Minutes, And Seek Immediate Attention.		
INGESTION:	Get Immediate Attention. Do Not Induce Vomiting. Give One To Two Glasses Of Water Or Milk. Never Give Anything By Mouth To A Victim Who Is Unconscious Or Is Having Convulsions.		
SKIN CONTACT:	Immediately Wash Skin Thoroughly With Soap And Water. If Symptoms Develop And Persist, Get Medical Attention.		
NOTES TO PHYSICIAN:	This Material, If Aspirated Into The Lungs, May Cause Lipoid Pneumonitis. Treat Affected Person Appropriately..		
5. FIRE FIGHTING MEASURES			
FLASH POINT:	11.1 °C (51.98 °F) Tagliabue Closed Cup		
AUTO IGNITION TEMPERATURE:	Not Determined		
EXTINGUISHING MEDIA:	Water Spray (Fog), Foam, Dry Chemical Or Carbon Dioxide.		
UNUSUAL FIRE OR EXPLOSION HAZARDS:	DANGEROUS When Exposed To Heat Or Flame. This Material Can Be Ignited By Flame Or Spark Under Normal Atmospheric Conditions. Vapors Are Heavier Than Air And May Travel To Ignition Sources And Flash Back.		
FLAMMABLE/EXPLOSIVE LIMITS - LOWER:	2 %		
FLAMMABLE/EXPLOSIVE LIMITS - UPPER:	12 %		
SPECIAL FIRE FIGHTING PROCEDURES:	Wear Full Protective Clothing. Wear Self-Contained Breathing Apparatus.		
HAZARDOUS COMBUSTION PRODUCTS:	Upon Decomposition, This Emits Carbon Monoxide, Carbon Dioxide And/Or Low Molecular Weight Hydrocarbons.		
6. ACCIDENTAL RELEASE MEASURES			
Use Personal Protection Recommended In Section 8, Isolate The Hazard Area And Deny Entry To Unnecessary And Unprotected Personnel.			
ENVIRONMENTAL PRECAUTIONS:	Prevent Further Leakage Or Spillage If Safe To Do So. Remove All Sources Of Ignition. Wear Appropriate Protective Equipment And Clothing During Clean-Up.		
CLEAN-UP METHODS:	Collect Spilled Material With An Inert Absorbent Such As Sand Or Vermiculite. Place In Properly Labeled Closed Container. Dispose Of According To Federal, State And Local Governmental Regulations.		
7. HANDLING AND STORAGE			
HANDLING:	Avoid Contact With Eyes, Skin And Clothing. Wash Thoroughly After Handling. Avoid Breathing Vapors Or Mists Of This Product. Do Not Take Internally. For Industrial Use Only. Keep Away From Heat, Spark And Flame. Ground And Bond All Equipment As Required (When Transferring Products).		
STORAGE:	For Safe Storage, Store At Or Below <90 °F (<32.2 °C). Keep Container Tightly Closed And In A Cool, Well-Ventilated Place Away From Incompatible Materials. Remove All Sources Of Ignition.		
For Information On Product Shelf Life, Please Review Labels On Container Or Check The Technical Data Sheet.			
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
ENGINEERING CONTROLS:	Provide Local And General Exhaust Ventilation To Effectively Remove And Prevent Buildup Of Any Vapors Or Mists Generated From The Handling Of This Product.		
RESPIRATORY PROTECTION:	If Ventilation Is Not Sufficient To Effectively Prevent Buildup Of Aerosols, Mists Or Vapors, Appropriate NIOSH/MSHA Respiratory Protection Must Be Provided.		
EYE/FACE PROTECTION:	Wear Chemical Goggles; Face Shield (If Splashing Is Possible).		
SKIN PROTECTION:	Wear Impervious Gloves For Prolonged Contact. Gloves Should Be Tested To Determine Suitability For Prolonged Contact. Use Of Impervious Apron And Boots Are Recommended.		

Employers Should Complete An Assessment Of All Workplaces To Determine The Need For, And Selection Of, Proper Exposer Controls And Protective Equipment For Each Task Performed.

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-PROPANOL	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m ³)TWA	None	None
GRAPHITE	2 mg/m ³ TWA Respirable Fraction.	5 mg/m ³ TWA Respirable Fraction. 15 mg/m ³ TWA Total Dust 15 MPPCF TWA	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid	ODOR:	Alcohol
COLOR:	Black	ODOR THRESHOLD:	Not Available
pH:	Not Applicable	VAPOR PRESSURE:	31.2 mm hg Calculated
MELTING POINT RANGE:	Not Determined	BOILING POINT/RANGE:	35 °C (95 °F)
SPECIFIC GRAVITY:	0.780 – 0.804	VAPOR DENSITY:	Not Determined
FLASH POINT:	11.1 °C (51.98 °F) Tagliabue Closed Cup	AUTO IGNITION TEMPERATURE:	Not Determined
FLAMMABLE/EXPLOSIVE LIMITS LOWER:	2 %	FLAMMABLE/EXPLOSIVE LIMITS UPPER:	12 %
EVAPORATION RATE:	1	SOLUBILITY IN WATER:	Disperse in water as a suspension
PARTITION COEFFICIENT (n-octanol/water):	Not Determined	VOC CONTENT:	766 g/l

10. STABILITY AND REACTIVITY

STABILITY:	Stable At Normal Conditions.	HAZARDOUS REACTIONS:	None Under Normal Processing.
INCOMPATIBLE MATERIALS:	This Product May React With Strong Oxidizing Agents.	CONDITIONS TO AVOID:	Heat, Flames, Sparks And Other Sources Of Ignition.
HAZARDOUS DECOMPOSITION PRODUCTS: Upon Decomposition This Product Emits Carbon Monoxide, Carbon Dioxide And/Or Low Molecular Weight Hydrocarbons.			

11. TOXICOLOGICAL INFORMATION

HAZARDOUS COMPONENTS	NTP CARCINOGEN	IARC CARCINOGEN	OSHA CARCINOGEN (Specifically Regulated)
2-Propanol	No	No	No
Graphite	No	No	No
HAZARDOUS COMPONENTS	HEALTH EFFECTS/TARGET ORGANS		
2-Propanol	Allergen, Blood, Brain, Central Nervous System, Irritant, Kidney, Liver, Spleen		
Graphite	Lung		

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not Available.

13. DISPOSAL CONSIDERATIONS

RECOMMENDED METHOD OF DISPOSAL:	Follow All Local, State, Federal And Provincial Regulations For Disposal.	HAZARDOUS WASTE NUMBER:	If Discarded, This Product Is Considered A RCRA Ignitable Waste, D001.
Information Provided Is For Unused Product Only.			

14. TRANSPORTATION INFORMATION

METHOD	US Department Of Transportation Ground (49CFR)	International Air Transportation (ICAO/IATA)	Water Transportation (IMO/IMDG)
PROPER SHIPPING NAME	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL
HAZARD CLASS/DIVISION	3	3	3
IDENTIFICATION NUMBER	UN1219	UN1219	UN1219
PACKING GROUP	II	II	II

15. REGULATORY INFORMATION

UNITED STATES REGULATORY INFORMATION	
TSCA 8 (b) Inventory Status:	All Components Are Listed Or Are Exempt From Listing On The Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification:	None Above Reporting De Minimis.
CERCLA/SARA Section 302 EHS:	None Above Reporting De Minimis.
CERCLA/SARA Section 311/312:	Immediate Health, Fire.
CERCLA/SARA 313:	None Above Reporting De Minimis.
California Proposition 65:	No California Proposition 65 Listed Chemicals Are Known To Be Present.
CANADA REGULATORY INFORMATION	
CEPA DSL/NDSL Status:	ALL Components Are Listed On Or Are Exempt From Listing On The Canadian Domestic Substances List.
WHMIS Hazard Class:	B.2, D.2.B

16. OTHER INFORMATION

DISCLAIMER: The Data Contained Herein Are Furnished For Information Only And Are Believed To Be Reliable. However, Huron Industries Inc. Does Not Assume Responsibility For Any Results Obtained By Persons Over Whose Methods Huron Industries Has No Control. It Is The User's Responsibility To Determine The Suitability Of Huron Industries' Products Or Any Production Methods Mentioned Herein For A Particular Purpose, And To Adopt Such Precautions As May Be Advisable For The Protection Of Property And Persons Against Any Hazards That May Be Involved In The Handling And Use Of Any Huron Industries' Products. In Light Of The Foregoing, Huron Industries Specifically Disclaims All Warranties, Express Or Implied, Including Warranties Of Merchantability And Fitness For Particular Purpose, Arising From Sale Or Use Of Huron Industries' Products. Huron Industries Further Disclaims Any Liability For Consequential Or Incidental Damages Of Any Kind, Including Lost Profits.