MATERIAL SAFETY DATA SHEET
AEROSOL WHITE LITHIUM GREASE
Panef Inc.

 Revision Date: 01/01/12

Section 1: Chemical Product and Company Identification

Product Name: Aerosol White Lithium Grease
Product Number: Panef WGA-6
Manufacturer: Panef Inc.
5700 West Douglas Ave.
Milwaukee, WI 53218
Emergency Telephone: 800-535-5053
Total Pages: 4
Information Telephone: 414-464-7200

Section 2: Composition / Information on Ingredients

Item	Chemical Name	CAS	OSHA PEL	ACGIH TLV	%
01	Propane/Isobutane/N-Butane	68476-86-8			20.0%
02	N-Hexane	110-54-3			10.0%
03	Mineral Oil Hydrotreated (severe)	64742-52-5			10.0%
04	Stoddard Solvent	8052-41-3			10.0%

------EXPOSURE LIMITS ------

	ACGIH		OSHA		COMPANY	
	TLV – TWA	TLV – STEL	PEL – TWA	PEL – CEILING	TLV –TWA	SKIN
01	800 PPM	N.E.	800 PPM	N.E.	N.E.	YES
02	50 PPM	N.E.	50 PPM	500 PPM	N.E.	YES
03	5 MG/M3 Skin	10 MG/M3	5 MG/M3	N.E.	N.E.	YES
04	100 PPM	N.E.	100 PPM	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

Section 3: Hazards Identification

Route (s) of Entry:	Inhalation	Skin	Ingestion	Eye
	Yes	Yes	No	Yes

Emergency Overview: Vapors irritating to eyes and respiratory tract. Vapors may cause flash fire or explosion.
Eye Contact: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
Skin Contact: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritating and dermatitis (rash).
Inhalation: Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure. Prolonged inhalation may be harmful.
Ingestion: This material may be harmful or fatal if swallowed. Corrosive and may cause severe and permanent damage to mouth, throat and stomach.
Chronic Hazards: Overexposure may cause nervous system damage, lunge damage and kidney damage.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
Skin: Immediately flush skin with plenty water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Ingestion: Get medical attention immediately. If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire Fighting Measures

Flash Point: (method) : 156ºF (Pensky-Martens C.C.)

Flammable Limits:	**LEV:**	**UEL:**
	0.7%	9.5 %

Autoignition Temperature: ND
Extinguishing Media: Alcohol Foam CO2 Dry Chemical Foam Water Fog
Unusual Fire and Explosion Hazards: Vapors can ravel to a source of ignition and flash back. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.
Special Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Spill / Leak Procedures: Absorb spill with inert material (e.g. dry sand or earth.) then place is a chemical waste container.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling.
Storage: Keep away from heat, sparks and flame. Keep from freezing.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLV's during the use of this product.
Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Skin Protection: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.
Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield.
Other Protective Equipment: Standard industrial clothing standards should be followed.
Hygienic Practices: Wash hands before eating, Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing.

Section 9: Physical / Chemical Characteristics

Boiling Point	: - 43 - 387ºF	Vapor Density	: Is heaver than air
Odor	: Solvent	Odor Threshold	: ND
Appearance	: Off White	Evaporation Rate	: Is faster than Butyl Acetate
Water Solubility	: Negligible		
Freeze Point	: 32	Specific Gravity	: 0.9263
Vapor Pressure	: 80-90	pH @ 0.0 %	: NA
Physical State	: Liquid	Viscosity	: ND

Coefficient of Water/Oil Distribution: Negligible

(See Section 16 for abbreviation legend)

Section 10: Stability and Reactivity

Conditions to Avoid: All sources of ignition, welding areas and open flames.
Incompatibility (materials to avoid): Strong acids, alkalis, oxidizers and amines.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, and may produce forms of chloride, chlorine and phosgene.
Hazardous Polymerization: Will not occur under normal conditions.
Stability: Material is stable under normal storage conditions.

Section 11: Toxicology Information

Product LD50: 5 mg/kg **Product LC50:** 28 ppm

Component Toxicological Information

Chemical Name	LD50	LC50
Water	>90 ML/KG/RAT	NE
PROPANE/ISOBUTANE/N-BUTANE	NE.	57 PPM/15M/RAT
N-HEXANE	48,000 PPM/4H/RAT	28,710 MG/KG RAT
MINERAL OIL HYDROTREATED (SEVERE)	ND	ND
STODDARD SOLVENT	>5 GM/KG RAT	>5500 MG/M3/4H RAT
SORBITAN MONOOLEATE	40 G/KG RAT	NE
AMMONIUM HYDROXIDE	350 MG/KG RAT	LOW 43 MG/KG HUMAN
TAP WATER	>90 ML/KG/RAT	NE
1,2,4 – TRIMETHYLBENZENE	5 GM/KG RAT	18 GM/M3/4H RAT
ZINC OXIDE	>8437 MG/KG RAT	2500 MG/M3 MOUSE
1,3,5 – TRIMETHYLBENZENE	NE	24 GM.M3.4H RAT
DIMETHYLBENZENE	4300 MG/M3 RAT	5000 PPM/4H RAT
ETHYLBENZENE	3500 MG/KG/RAT	NE
TOLUENE	636 MG/KG/RAT	49 MG/M3/4H/RAT

Section 12: Ecological Information

None available

Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14: Transportation Information

DOT Technical Name: ORM-D
DOT HAZARD CLASS: 2.1
DOT UN/NA Number: UN1950
Hazard Subclass: NA
Packing Group: NA
Resp. Guide Page: 126

Section 15: Regulatory Information

U. S. FEDERAL REGULATIONS

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

Cercla –Sara Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (Sara Title III) and is considered, under applicable definitions, to meet the following categories: Immediate Health Hazard; Chronic Health Hazard; Fire Hazard; Pressurized Gas Hazard.

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical Name	CAS Number	WT/WT % is Less Than
N-Haxane	110-54-3	10.0 %

Toxic Substance Control Act: This product contains the following chemical substances subject of the reporting requirements of TSCA 12(B) if exported from the United States:
No information is available.

U.S. STATE REGULATIONS

New Jersey Right-To-Know: The following materials are non-hazardous, but are among the top five components in this product:
Water 7732-18-5

Pennsylvania Right-To-Know: The following non-hazardous ingredients are present in the product at greater than 3%:
Water 7732-18-5

California Proposition 65: Warning: The Chemical(s) noted below and contained is this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:
Toluene 108-88-3

INTRNATIONAL REGULATIONS

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
Canadian WHMIS Class: No information available.

Section 16: Other Information

HMIS Ratings Health: 1 Flammability: 4 Reactivity: 0

Volatile Organic Compounds (VOCS): 2.21 lbs/gal, 265 grams/ltr

Legend: N.A. – Not Applicable, N.E. – Not Established, N.D. – Not Determined

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