

Date of issue: 04/15/2014 Revision date: 04/15/2014 Version: 1.0

SECTION 1: Identification of the subs	stance/mixture and of the company/u	undertaking	
1.1. Product identifier			
Product name	: PENRAY DRY GRAPHITE LUBE		
Product code	: 7009		
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against		
Use of the substance/mixture	: Dry graphite lube.		
1.3. Details of the supplier of the safety of	lata sheet		
The Penray Companies, Inc. 440 Denniston Ct. 60090 Wheeling, IL T (800) 373-6729 rotto@penray.com			
1.4. Emergency telephone number			
Emergency number	: (800) 373-6729 CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887	′ 24 hr	
SECTION 2: Hazards identification			
2.1. Classification of the substance or m	ixture		
GHS-US classification			
Flammable Aerosol 1 Gases Under Pressure - Compressed Gas Eye irritation 2A Specific target organ toxicity - Single exposure 3			
2.2. Label elements			
Hazard pictograms (GHS-US)		>	
Signal word (CLIS LIS)	GHS02 GHS04 GHS07		
Signal word (GHS-US)	: Danger : Extremely flammable aerosol. Contains gas ι	under pressures	may avalade if bastad. Causas
Hazard statements (GHS-US)	serious eye irritation. May cause drowsiness		hay explode if heated. Causes
Precautionary statements (GHS-US)	: Keep away from heat/sparks/open flames/hot flame or other ignition source. Pressurized co Wash hands thoroughly after handling. Wear gas/mist/vapors/spray. Use only outdoors or with water for several minutes. Remove conta rinsing. If eye irritation persists: Get medical a air and keep comfortable for breathing. Call a from sunlight. Do not expose to temperatures place. Store locked up. Dispose of contents a national and international regulations.	ontainer: Do not eye protection/f. in a well-ventilate act lenses, if pre advice/attention. a poison center/c s exceeding 50 %	pierce or burn, even after use. ace protection. Avoid breathing ed area. If in eyes: Rinse cautiously sent and easy to do. Continue If inhaled: Remove person to fresh loctor if you feel unwell. Protect C/122 °F. Store in a well-ventilated
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US)			
7 % of the mixture consists of ingredient(s) of un-	known acute toxicity.		
SECTION 3: Composition/information	n on ingredients		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification

Name	Product identifier	%	GHS-US classification
Acetone	(CAS No) 67-64-1	60 - 100	Flam. Liq. 2 Eye Irrit. 2A STOT SE 3
Isopropyl alcohol	(CAS No) 67-63-0	3 - 7	Flam. Liq. 2 Eye Irrit. 2A STOT SE 3



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ndard (CER29 1910 1200) HazCom 2012 ~ а

Name		Product identifier	%	GHS-US classification
Carbon dioxide		(CAS No) 124-38-9	3 - 7	Compressed gas
The exact percentage (concentration) of composition	ition has beer	n withheld as a trade secret in accordance wit	h paragraph (i) of §	1910.1200.
SECTION 4: First aid measures				
.1. Description of first aid measure	ie.			
irst-aid measures after inhalation	: If in	haled, remove to fresh air. If not breath e oxygen. Get medical advice/attention i		respiration. If breathing is difficult,
irst-aid measures after skin contact	: In c	case of contact, immediately flush skin w	vith plenty of wate	
First-aid measures after eye contact	: In c	and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.		
First-aid measures after ingestion	: If s	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never giv anything by mouth to an unconscious person. Get immediate medical advice/attention.		
4.2. Most important symptoms and	effects, bot	h acute and delayed		
Symptoms/injuries after inhalation		y cause drowsiness, dizziness and cent ct irritation.	ral nervous syste	m depression. May cause respirato
Symptoms/injuries after skin contact	: Ma	y cause skin irritation. Symptoms may ind	clude redness, dry	ring, defatting and cracking of the sk
Symptoms/injuries after eye contact		uses serious eye irritation. Symptoms m r production, with marked redness and s		
Symptoms/injuries after ingestion	: Ma	y be harmful if swallowed. May cause st	omach distress, r	nausea or vomiting.
I.3. Indication of any immediate me	dical attent	ion and special treatment needed		
Symptoms may not appear immediately. In possible).			advice immediate	ly (show the label or SDS where
SECTION 5: Firefighting measure	es			
5.1. Extinguishing media				
Suitable extinguishing media	: Pov	wder, water spray, foam, carbon dioxide		
Jnsuitable extinguishing media	: Do	not use a heavy water stream.		
5.2. Special hazards arising from th	e substanc	e or mixture		
Fire hazard		remely flammable aerosol. Products of carbon.	combustion may i	nclude, and are not limited to: oxid
Explosion hazard		at may build pressure, rupturing closed of I injuries.	containers, sprea	ding fire and increasing risk of burn
5.3. Advice for firefighters				
Protection during firefighting	pro	ep upwind of fire. Wear full fire fighting to tection (SCBA). Vapors may be heavier ition source and flash back. Use water s	than air and may	travel along the ground to a distar
SECTION 6: Accidental release n	neasures			
.1. Personal precautions, protectiv	e equipmer	nt and emergency procedures		
General measures		e personal protection recommended in S necessary and unprotected personnel. E		
5.2. Methods and material for conta	inment and	cleaning up		
For containment	cor	ntain and/or absorb spill with inert mater ntainer. Do not flush to sewer or allow to otective Equipment (PPE).	ial (e.g. sand, ver enter waterways.	miculite), then place in a suitable Use appropriate Personal
Methods for cleaning up		pop up material and place in a disposal (container. Provide	e ventilation.
.3. Reference to other sections				
See section 8 for further information on prot	ective clothi	ng and equipment and section 13 for ad	vice on waste dis	posal.
SECTION 7: Handling and storag	e			
7.1. Precautions for safe handling				
Precautions for safe handling	igni skir	ep away from sources of ignition No si ition source. Pressurized container: Do i n and eyes. Do not swallow. Avoid breat	not pierce or burn hing gas/mist/vap	, even after use. Avoid contact with pors/spray. When using do not eat,
	drir	nk or smoke. Use only outdoors or in a v	vell-ventilated are	a.

7.2.	Conditions for safe storage, includ	ing any incompatibilities
Storage	conditions	: Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50°C/ 122°F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.

Hygiene measures



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7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Acetone (67-64-1)			
USA ACGIH	ACGIH TWA (ppm)	500 ppm	
USA ACGIH	ACGIH STEL (ppm)	750 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
Isopropyl alcohol (67-63-0)		•	
USA ACGIH	ACGIH TWA (ppm)	200 ppm	
USA ACGIH	ACGIH STEL (ppm)	400 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
Carbon dioxide (124-38-9)		•	
USA ACGIH	ACGIH TWA (ppm)	5000 ppm	
USA ACGIH	ACGIH STEL (ppm) 30000 ppm		
USA OSHA	OSHA PEL (TWA) (mg/m ³) 9000 mg/m ³		
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
8.2. Exposure controls			
Appropriate engineering controls	: Use ventilation adequate to keep exp recommended exposure limits.	osures (airborne levels of dust, fume, vapor, etc.) below	
Personal protective equipment	: Avoid all unnecessary exposure.		
Hand protection	: Wear chemically resistant protective gloves.		
Eye protection	: Safety glasses or goggles are recommended when using product.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator			

Environmental exposure controls Other information

SECTION 9: Physical and chemic	al properties
9.1. Information on basic physical and	
Physical state	: Gas/Pressurized Liquid.
Appearance	: Opaque.
Colour	: Dark grey.
Odour	: Solvent.
Odour threshold	: No data available.
рН	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: 0.790 - 0.796
Solubility	: No data available.

: Maintain levels below Community environmental protection thresholds.

: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

EN (English)



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Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Sources of ignition. Incompatible materials.

10.5. Incompatible materials

Acids. Amines. Bases. Oxidizers.

10.6.Hazardous decomposition productsMay include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
7009	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg
LC50 inhalation rat (mg/m ³)	50100 mg/m³/8h
Isopropyl alcohol (67-63-0)	
LD50 oral rat	4396 mg/kg
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	72.6 mg/l/4h
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Isopropyl alcohol (67-63-0)	
IARC group	3
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause drowsiness, dizziness and central nervous system depression. May cause respirator tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skir
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
04/45/0044	

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EN (English)



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according to the Hazard Communication Standard (CFR29	1910.1200) HazCom 2012.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	May cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability	
7009	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
7009	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste disposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	Flammable vapours may accumulate in the container. Do not incinerate closed containers.
SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	
UN-No.	UN1950
14.2. UN proper shipping name	
Proper Shipping Name	Aerosols flammable
Department of Transportation Hazard Classes	2.1
Hazard labels :	
14.3. Additional information	
Other information	No supplementary information available.
Special transport precautions	Do not handle until all safety precautions have been read and understood.
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substar	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
Isopropyl alcohol (67-63-0)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 313 (Specific toxic chem	ical listings)
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 %
Carbon dioxide (124-38-9)	
Listed on the United States TSCA (Toxic Substan	Ices Control Act) inventory
15.2. US State regulations	
7009	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.



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SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:				
IARC	International Agency for Research on Cancer.			
	 Carcinogenic to humans; Probably carcinogenic to humans; Possibly carcinogenic to humans; Not classifiable; Probably not carcinogenic to humans. 			
NTP	National Toxicology Program.			
	 Evidence of Carcinogenicity; Known Human Carcinogens; Reasonably anticipated to be Human Carcinogen; Substances delisted from report on Carcinogens; Twelfth Report - Items under consideration. 			

SECTION 16: Other information		
Indication of changes	:	None.
Date of issue	:	04/15/2014
Other information	:	None.
NFPA health hazard NFPA fire hazard NFPA reactivity	:	2 4 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

