

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture
CAS No. Mixture

Trade Name OSBORN DRY GRAPHITE LUBE 76210

Product Code M-5824

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)LubricantUses Advised AgainstNoneCompany IdentificationOsborn

2350 Salisbury Road North Richmond, IN 47374 USA

Telephone (765) 965-5333 Fax (765) 935-0212

E-Mail (competent person) <u>marketsupport@osborn.com</u>

Emergency telephone number

Emergency Phone No. Transportation Emergency: CHEMTREC 24 hr. 1-800-424-

9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 1; Liquefied gas; Skin Irrit. 2; Repr. 2; STOT SE 3; STOT RE 1; Asp. Tox. 1

Label elements

Hazard Symbol



Signal word(s)

DANGER

Hazard Statement(s) Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure: Central

Nervous System, Route: Inhalation May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

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Precautionary Statement(s) Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Ground/bond container and receiving equipment.

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Use only outdoors or in a well-ventilated area.

Do not breathe mist/vapours/spray.

Wear protective gloves/eye protection.

Wash hands and exposed skin after use.

Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Other hazards: Harmful to aquatic life.

Additional Information: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
			Flam. Liq. 2; H225
	> 60	110-54-3	Asp. Tox. 1; H304
n-Hexane			Repr. 2; H361
			Skin Irrit. 2; H315
			STOT SE 3; H336
			STOT RE 2; H373
Dranana	10 - 20	10 20 Flam. Gas 1; H220	
Propane	10 - 20	74-98-6	Liquefied gas; H280
Butane	10 - 20	106-97-8 Flam. Gas 1; H220	
Bulane	10 - 20	100-97-0	Liquefied gas; H280
			Flam. Liq. 3; H226
	5 - 10	8052-41-3	Asp. Tox. 1; H304
Aliphatic hydrocarbons (Stoddard Solvent)			STOT SE 3; H336
			STOT RE 1; H372
			Aquatic Acute 2; H401
			Aquatic Chronic 3; H412

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation Move person to fresh air. If breathing is labored, administer oxygen. If

symptoms develop, obtain medical attention.

Skin Contact Wash affected skin with soap and water. If symptoms develop, obtain

medical attention. Take off contaminated clothing and wash it before

reuse. Get medical advice/attention if you feel unwell.

Eye Contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

Ingestion Do not give anything by mouth to an unconscious person. Seek medical

treatment. Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delayed

May be harmful if swallowed and enters airways.

Indication of any immediate medical attention and IF SWALLOWED: Immediately call a POISON CENTER or

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^{*} The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.



special treatment needed doctor/physician. Do NOT induce vomiting.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or

mixture

Highly flammable vapor (flash point below 23°C).

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing

should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

emergency procedures Avoid contact with skin and eyes. Avoid breathing vapors.

Environmental precautions Prevent liquid entering sewers, basements and work pits.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

Reference to other sections None Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Avoid breathing vapors. Ground/bond container and receiving

equipment.

Conditions for safe storage, including any incompatibilities

-Storage temperature Keep in a cool, well ventilated place. Store at temperatures not exceeding

50 °C / 122 °F.

-Incompatible materials This product should be stored away from sources of strong heat or

oxidizing chemicals.

Specific end use(s)

Lubricant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
n-Butane	106-97-8		250 ppm			
Propane	74-98-6	1000 ppm	Aspyx.#			#
n-Hexane	110-54-3	500 ppm	50 ppm*			*Skin
Aliphatic hydrocarbons (Stoddard Solvent)	8052-41-3	500 ppm	100 ppm			

^{*}Assure minimum oxygen content of work atmosphere;



Recommended monitoring method

NIOSH 1300 (Ketones I); NIOSH 1500 (hydrocarbons, B.P. 36 - 126

°C); NIOSH 1501 (Hydrocarbons, Aromatic); NIOSH 1550 (Naphthas)

Exposure controls

Appropriate engineering controls Provide adequate ventilation to ensure that the occupational exposure

limit is not exceeded.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Wear suitable gloves if prolonged skin contact is likely. Check with

protective equipment manufacturer's data.

Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with

protective equipment manufacturer's data.

Thermal hazards Not normally required. Use gloves with insulation for thermal

protection, when needed.

Environmental Exposure Controls None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Aerosol Color. Colorless

Odor Petroleum spirit / Fuel oil-like

Odor Threshold (ppm)

Property (Value)

Mot available

Not available

Not available

Not available

Not available

Boiling point/boiling range (°C):

Not available

Flash Point (°C)

Evaporation Rate

Flammability (solid, gas)

Not available

-104 (Propane)

Not available

Extremely flammable

Explosive Limit Ranges

2.1% - 9.5% v/v (Propane)

Vapor pressure (Pascal)

Vapor Density (Air=1)

2.1% - 9.5% v/v (Propane)

ca. 95 x 10⁴ (Propane)

ca. 1.56 @ 0°C (Propane)

Density (g/ml)

Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Not available

450 (Propane)

Decomposition Temperature (°C)

Kinematic Viscosity

Kinematic Viscosity

Cyclosive properties

Not explosive.

Not oxidizing properties

Other information

Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

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Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials Strong oxidizing agents

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

n-Hexane (CAS No. 110-54-3):

Acute toxicity Oral: LD50 ≈16 g/kg-bw (May be fatal if swallowed and enters

airways.)

Dermal: LD50 >2 g/kg-bw. rabbit

Inhalation: LC50 > 17600 mg/m3 (Vapor), 24-hr. rat (May cause

drowsiness or dizziness.)

Irritation/Corrosivity Causes skin irritation. Repeated exposure may cause skin dryness or

cracking.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity LOAEL: 37973 mg/kg (101 days, oral, rat, CNS effects)

NOAEL: 1135 mg/kg (101 days, oral, rat, CNS effects)

NOAEC: 1760 mg/m3 (90 day, inhal., female mice, nasal lesions) LOAEC: 3000 ppm (12 hr a day for 16 weeks, inhal., rat, CNS effects

Carcinogenicity (By analogy with similar materials)

NOEL: 31736 mg/m3 (2 years, inhal. Oncogenic effects)

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Reproductive toxicity Studies in animals have shown that repeated exposures produce

adverse reproductive effects.

Aliphatic Hydrocarbon (Stoddard Type) (CAS No. 8052-41-3) - By analogy with similar materials:

Acute toxicity (calculated / estimated)

Oral: LD50 >5000 mg/kg-bw

Dermal: LD50 >2000 mg/kg-bw

Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause drowsiness

or dizziness.

Irritation/Corrosivity Causes skin irritation. Repeated exposure may cause skin dryness or

cracking.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity Causes damage to organs through prolonged or repeated exposure:

Central Nervous System:
Oral: NOEAL 750 mg/kg
Dermal: NOEAL 0.5 ml/kg bw
Inhalation: NOAEL ≥1000 mg/m3

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

 Mutagenicity
 Not to be expected

 Reproductive toxicity
 Not to be expected

Propane (CAS# 74-98-6):

Acute toxicity Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)

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Irritation/Corrosivity

No evidence of irritant effects from normal handling and use.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity NOAEC: ≥19678 mg/m3 (28-day, rat, Systemic effects)

LOAEC: 21641 mg/m3 (28-day, rat, effects: Body weight)

Carcinogenicity No data. It is unlikely to present a carcinogenic hazard to man.

Mutagenicity There is no evidence of mutagenic potential.

Reproductive toxicity

None anticipated

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

n-Hexane (CAS# 110-54-3):

Short term LC50 (96 hour): >1000 µg/L (Oryzias latipes)

LC50 (48 hour): 45 mmol/m3 (Daphnia magna, mortality)

EC50 (96 hour): 2.66% (C. pyreniodosa)

Long Term NOELR (28 days) 2.8 mg/l (Fish) QSAR

NOELR (21 days): 4.88 mg/l (Daphnia magna) QSAR

NOEL (96 hour) 2.077 mg/l (Algae) QSAR

Stoddard Solvent (CAS# 8042-41-3:

Short term LL50 (96 hour): 3.5 mg/L (Chaetogammarus marinus)

ErC50 (96 hour): 1.2 mg/l (Pseudokirchnerella subcapitata)

Long Term NOEL (21 days): 0.28 mg/L (*Daphnia magna*)

NOEC (96 hour): 0.16 mg/L (Pseudokirchnerella subcapitata)

Persistence and degradability Readily biodegradable.

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soil

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

Not available

SECTION 14: TRANSPORT INFORMATION

	U.S. DOT	Sea transport <u>(IMDG)</u>	Air transport (ICAO/IATA)
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

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Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
n-Hexane	110-54-3	64	5000

SARA 311/312 - Hazard Categories:

☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
n-Hexane	110-54-3	64

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 25, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H372: Causes damage to organs through prolonged or repeated exposure:
- H373: May cause damage to organs through prolonged or repeated exposure:
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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