

## Safety Data Sheet


according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 11, 2019

### 1 Identification

- **Product identifier**
- **Trade name:** SLIP Plate No. 4
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Lubricant
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Asbury Carbons, Inc.  
PO Box 144  
405 Old Main Street  
Asbury, NJ 08802  
USA  
+1 908-537-2155
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)  
1-300-954-583 (Australia)  
0-800-591-6042 (Brazil)  
400-120-0751 (China)  
000-800-100-4086 (India)  
01-800-099-0731 (Mexico)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**  
  
GHS05 GHS07 GHS08
- **Signal word:** Danger
- **Hazard statements:**  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.

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H351 Suspected of causing cancer. Route of exposure: Inhalation.

H361 Suspected of damaging fertility or the unborn child.

**Precautionary statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing mist, vapors, or spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection.
- P302+P352 If on skin: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center/doctor.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Components:**

7782-42-5	Graphite	20-30%
111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	<10%
71-36-3	butan-1-ol ⚠ Flam. Liq. 3, H226 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	<2.5%
121-44-8	triethylamine ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	<2.5%
14808-60-7	Quartz	<1%
27253-31-2	Cobalt Carboxylate ⚠ Carc. 2, H351; Repr. 2, H361 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	<1%

**Additional information:** For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

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- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
Provide oxygen treatment if affected person has difficulty breathing.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation is experienced, consult a doctor.
- **After eye contact:**  
Protect unharmed eye.  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.  
A person vomiting while lying on their back should be turned onto their side.
- **Most important symptoms and effects, both acute and delayed:**  
Allergic reactions  
Coughing  
Nausea in case of ingestion.  
May cause gastro-intestinal irritation if ingested.  
Strong irritant with the danger of severe eye injury.
- **Danger:**  
Suspected of damaging fertility or the unborn child.  
Suspected of causing cancer. Route of exposure: Inhalation.
- **Indication of any immediate medical attention and special treatment needed:**  
Contains Cobalt Carboxylate. May produce an allergic reaction.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.

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- Ensure adequate ventilation.
- Particular danger of slipping on leaked/spilled product.
- **Environmental precautions** Avoid release to the environment.
- **Methods and material for containment and cleaning up**  
Towel or mop up material and collect in a suitable container.  
For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**  
Avoid splashes or spray in enclosed areas.  
Use only in well ventilated areas.  
Avoid contact with the eyes and skin.  
Open and handle receptacle with care.  
Keep out of reach of children.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in cool, dry conditions in well sealed receptacles.  
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidizing agents.
- **Specific end use(s)** No relevant information available.

### 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**

#### 7782-42-5 Graphite

PEL (USA)	Long-term value: 15 mppcf* mg/m <sup>3</sup> *impinger samples counted by light field techn.
REL (USA)	Long-term value: 2.5* mg/m <sup>3</sup> *respirable dust
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> all forms except graphite fibers;*resp. fraction
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable
LMPE (Mexico)	Long-term value: 2* mg/m <sup>3</sup>

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\*fracción respirable

**111-76-2 2-butoxyethanol**

PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Long-term value: 20 ppm Skin
LMPE (Mexico)	Long-term value: 20 ppm A3, IBE

**71-36-3 butan-1-ol**

PEL (USA)	Long-term value: 300 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Ceiling limit value: 150 mg/m <sup>3</sup> , 50 ppm Skin
TLV (USA)	Long-term value: 61 mg/m <sup>3</sup> , 20 ppm
EL (Canada)	Long-term value: 15 ppm Ceiling limit value: 30 ppm
EV (Canada)	Long-term value: 20 ppm
LMPE (Mexico)	Long-term value: 20 ppm

**121-44-8 triethylamine**

PEL (USA)	Long-term value: 100 mg/m <sup>3</sup> , 25 ppm
TLV (USA)	Short-term value: 4.14 mg/m <sup>3</sup> , 1 ppm Long-term value: 2.07 mg/m <sup>3</sup> , 0.5 ppm Skin
EL (Canada)	Short-term value: 1 ppm Long-term value: 0.5 ppm Skin
EV (Canada)	Short-term value: 3 ppm Long-term value: 1 ppm
LMPE (Mexico)	Short-term value: 3 ppm Long-term value: 1 ppm A4, PIEL

**14808-60-7 Quartz**

PEL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; 30mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction
EL (Canada)	Long-term value: 0.025 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m <sup>3</sup>

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LMPE (Mexico)	*respirable fraction Long-term value: 0.025* mg/m <sup>3</sup> A2, *fracción respirable
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**· Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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**· Exposure controls**

**· General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
 Keep away from foodstuffs, beverages and feed.  
 Pregnant women should strictly avoid inhalation or skin contact.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

**· Engineering controls:** No relevant information available.

**· Breathing equipment:**

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.  
 NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**· Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**· Eye protection:**



Safety glasses

**· Body protection:** Protective work clothing

**· Limitation and supervision of exposure into the environment**

No relevant information available.

**· Risk management measures** No relevant information available.

### 9 Physical and chemical properties

**· Information on basic physical and chemical properties**

**· Appearance:**

Form:	Liquid
Color:	Dark gray
Odor:	Odorless
Odor threshold:	Not determined.

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<b>pH-value:</b>	Not determined.
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)
<b>Flash point:</b>	>94 °C (>201.2 °F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Oxidizing properties:</b>	Non-oxidizing.
<b>Vapor pressure:</b>	Not determined.
<b>Density:</b>	
<b>Relative density:</b>	1.18
<b>Vapor density:</b>	0.6 (Air = 1)
<b>Evaporation rate:</b>	<1 (BuAc = 1)
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity</b>	
<b>Dynamic:</b>	1700 mPas
<b>Kinematic:</b>	Not determined.
<b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong oxidizing agents.  
Reacts with strong acids and alkali.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**  
Under fire conditions only:  
Carbon monoxide and carbon dioxide  
Toxic metal oxide smoke

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### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**111-76-2 2-butoxyethanol**

Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	1001-2000 mg/kg (rat) (Estimated)
Inhalative	LC50/4h	450 ppm (rat)

**71-36-3 butan-1-ol**

Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50/4h	8000 mg/l (rat)

**121-44-8 triethylamine**

Oral	LD50	460 mg/kg (rat)
Dermal	LD50	570 mg/kg (rabbit)

· **Primary irritant effect:**

· **On the skin:** Irritant to skin and mucous membranes.

· **On the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:** Contains Cobalt Carboxylate. May produce an allergic reaction.

· **IARC (International Agency for Research on Cancer):**

14808-60-7	Quartz	1
27253-31-2	Cobalt Carboxylate	2B
75-07-0	acetaldehyde	2B
123-91-1	1,4-dioxane	2B
75-21-8	Ethylene oxide	1
50-00-0	Formaldehyde	1
71-43-2	benzene	1

· **NTP (National Toxicology Program):**

14808-60-7	Quartz	K
75-07-0	acetaldehyde	R
123-91-1	1,4-dioxane	R
75-21-8	Ethylene oxide	K
50-00-0	Formaldehyde	K
71-43-2	benzene	K

· **OSHA-Ca (Occupational Safety & Health Administration):**

75-21-8	Ethylene oxide
50-00-0	Formaldehyde
71-43-2	benzene

· **Probable route(s) of exposure:**

Ingestion.  
Inhalation.

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Eye contact.

Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Suspected of causing cancer. Route of exposure: Inhalation.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:** May cause respiratory irritation.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Contact waste processors for recycling information.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |   |                |
|---|----------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>  | Not regulated. |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>                            | Not regulated. |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> <li>· <b>Class</b></li> </ul> | Not regulated. |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>                                      | Not regulated. |

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- **Environmental hazards**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

111-76-2	2-butoxyethanol
71-36-3	butan-1-ol
121-44-8	triethylamine

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Present in trace quantities.

75-07-0	acetaldehyde	10000
75-21-8	Ethylene oxide	10000
50-00-0	Formaldehyde	15000

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Present in trace quantities: all except quartz.

14808-60-7	Quartz	
75-07-0	acetaldehyde	
123-91-1	1,4-dioxane	
75-21-8	Ethylene oxide	
50-00-0	Formaldehyde	
71-43-2	benzene	

· **Chemicals known to cause developmental toxicity for females:**

Present in trace quantities.

75-21-8	Ethylene oxide	
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· **Chemicals known to cause developmental toxicity for males:**

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Present in trace quantities.

109-86-4	2-methoxyethanol
110-80-5	2-ethoxyethanol
75-21-8	Ethylene oxide
71-43-2	benzene

· **Chemicals known to cause developmental toxicity:**

Present in trace quantities.

109-86-4	2-methoxyethanol
110-80-5	2-ethoxyethanol
75-21-8	Ethylene oxide
71-43-2	benzene

· **EPA (Environmental Protection Agency):**

111-76-2	2-butoxyethanol	NL
71-36-3	butan-1-ol	D

· **IARC (International Agency for Research on Cancer):**

14808-60-7	Quartz	1
27253-31-2	Cobalt Carboxylate	2B
75-07-0	acetaldehyde	2B
123-91-1	1,4-dioxane	2B
75-21-8	Ethylene oxide	1
50-00-0	Formaldehyde	1
71-43-2	benzene	1

· **Canadian Domestic Substances List (DSL): (Substances not listed.)**

All ingredients are listed or exempt.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bio-accumulable, Toxic
- vPvB: very Persistent and very Bioaccumulative
- OSHA: Occupational Safety & Health Administration
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

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