

Safety Data Sheet

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

Printing date: February 08, 2019

Revision: February 08, 2019

1 Identification

- **Product identifier**
- **Trade name:** SLIP Plate HEAVY DUTY No. 1
- **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**
Flam. Liq. 3 H226 Flammable liquid and vapor.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Muta. 1B H340 May cause genetic defects.
Carc. 1A H350 May cause cancer.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT SE 3 H335 May cause respiratory irritation.
STOT RE 1 H372 Causes damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

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GHS02 GHS07 GHS08

· **Signal word:** Danger

· **Hazard statements:**

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H372 Causes damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P331 Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **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	20-40%
64742-48-9	Naphtha (petroleum), hydrotreated heavy ⚠ Flam. Liq. 3, H226 ☠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H335 Eye Irrit. 2B, H320	0-40%
8052-41-3	Stoddard solvent ⚠ Flam. Liq. 3, H226 ☠ STOT RE 1, H372; Asp. Tox. 1, H304	0-35%
64742-88-7	Solvent naphtha (petroleum), medium aliph. ⚠ Flam. Liq. 3, H226 ☠ Asp. Tox. 1, H304	0-35%
64742-47-8	Aliphatic Hydrocarbon ☠ Asp. Tox. 1, H304 Flam. Liq. 4, H227	<10%
95-63-6	1,2,4-trimethylbenzene ⚠ Flam. Liq. 3, H226 ☠ Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	<5%
1330-20-7	Xylene ⚠ Flam. Liq. 3, H226 ☠ Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	<5%
111-84-2	nonane ⚠ Flam. Liq. 3, H226 ☠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	<5%
25551-13-7	trimethylbenzene ⚠ Flam. Liq. 3, H226 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	<5%
64742-95-6	Hydrocarbons,C9,aromatics ⚠ Flam. Liq. 3, H226 ☠ Asp. Tox. 1, H304 ⚠ STOT SE 3, H335-H336	<5%
98-82-8	Cumene ⚠ Flam. Liq. 3, H226 ☠ Carc. 2, H351; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H302; STOT SE 3, H335	<2%
110-54-3	n-hexane	<2%

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	<ul style="list-style-type: none"> ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 ⚠ Eye Irrit. 2B, H320 	
108-88-3	Toluene <hr/> <ul style="list-style-type: none"> ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 	<2%
100-41-4	Ethylbenzene <hr/> <ul style="list-style-type: none"> ⚠ Flam. Liq. 2, H225 ⚠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H332 	<2%
96-29-7	2-butanone oxime <hr/> <ul style="list-style-type: none"> ⚠ Carc. 2, H351 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317 ⚠ Flam. Liq. 4, H227 	<1%
91-20-3	Naphthalene <hr/> <ul style="list-style-type: none"> ⚠ Flam. Sol. 2, H228 ⚠ Carc. 2, H351 ⚠ Acute Tox. 4, H302 	<1%
71-43-2	benzene <hr/> <ul style="list-style-type: none"> ⚠ Flam. Liq. 2, H225 ⚠ Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319 	<1%
14808-60-7	Quartz <hr/>	<1%
27253-31-2	Cobalt carboxylate <hr/> <ul style="list-style-type: none"> ⚠ 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

· **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:**

Remove contact lenses if worn.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.
 Do not induce vomiting; immediately call for medical help.

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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

Irritating to eyes, respiratory system and skin.

Coughing

Breathing difficulty

Nausea in case of ingestion.

May cause gastro-intestinal irritation if ingested.

- **Danger:**

May be fatal if swallowed and enters airways.

Danger of impaired breathing.

Causes damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

May cause cancer.

May cause genetic defects.

Suspected of damaging fertility or the unborn child.

- **Indication of any immediate medical attention and special treatment needed:**

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Gaseous extinguishing agents

Carbon dioxide

Fire-extinguishing powder

- **For safety reasons unsuitable extinguishing agents:** Water

- **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.

- **Additional information:** Eliminate all ignition sources if safe to do so.

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.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

- **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

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Inform respective authorities in case of seepage into water course or sewage system.

· **Methods and material for containment and cleaning up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
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.

· **Information about protection against explosions and fires:**

Flammable liquid and vapor.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Flammable gas-air mixtures may be formed in empty containers/receptacles.

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

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LMPE (Mexico)	respirable Long-term value: 2* mg/m ³ *fracción respirable
8052-41-3 Stoddard solvent	
PEL (USA)	Long-term value: 2900 mg/m ³ , 500 ppm
REL (USA)	Long-term value: 350 mg/m ³ Ceiling limit value: 1800* mg/m ³ *15-min
TLV (USA)	Long-term value: 525 mg/m ³ , 100 ppm
EL (Canada)	Short-term value: 580 mg/m ³ Long-term value: 290 mg/m ³
EV (Canada)	Long-term value: 525 mg/m ³
LMPE (Mexico)	Long-term value: 100 ppm
64742-47-8 Aliphatic Hydrocarbon	
EL (Canada)	Long-term value: 200 mg/m ³ Skin
95-63-6 1,2,4-trimethylbenzene	
REL (USA)	Long-term value: 125 mg/m ³ , 25 ppm
TLV (USA)	Long-term value: 123 mg/m ³ , 25 ppm
1330-20-7 Xylene	
PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV (USA)	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm
EV (Canada)	Short-term value: 650 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
LMPE (Mexico)	Short-term value: 150 ppm Long-term value: 100 ppm A4, IBE
111-84-2 nonane	
REL (USA)	Long-term value: 1050 mg/m ³ , 200 ppm
TLV (USA)	Long-term value: 1050 mg/m ³ , 200 ppm
EL (Canada)	Long-term value: 200 ppm
EV (Canada)	Long-term value: 1,050 mg/m ³ , 200 ppm
LMPE (Mexico)	Long-term value: 200 ppm
98-82-8 Cumene	
PEL (USA)	Long-term value: 245 mg/m ³ , 50 ppm Skin
REL (USA)	Long-term value: 245 mg/m ³ , 50 ppm Skin

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TLV (USA)	Long-term value: (246) NIC-0.5 mg/m ³ , (50) NIC-0.1 ppm NIC-A3
EL (Canada)	Short-term value: 75 ppm Long-term value: 25 ppm IARC 2B
EV (Canada)	Long-term value: 245 mg/m ³ , 50 ppm Skin
LMPE (Mexico)	Long-term value: 50 ppm

108-88-3 Toluene

PEL (USA)	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 75 mg/m ³ , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm R
EV (Canada)	Long-term value: 20 ppm
LMPE (Mexico)	Long-term value: 20 ppm A4, IBE

100-41-4 Ethylbenzene

PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 87 mg/m ³ , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm IARC 2B
EV (Canada)	Short-term value: 540 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
LMPE (Mexico)	Long-term value: 20 ppm

110-54-3 n-hexane

PEL (USA)	Long-term value: 1800 mg/m ³ , 500 ppm
REL (USA)	Long-term value: 180 mg/m ³ , 50 ppm
TLV (USA)	Long-term value: 176 mg/m ³ , 50 ppm Skin; BEI
EL (Canada)	Long-term value: 20 ppm Skin
EV (Canada)	Long-term value: 176 mg/m ³ , 50 ppm
LMPE (Mexico)	Long-term value: 50 ppm PIEL, IBE

96-29-7 2-butanone oxime

WEEL (USA)	Long-term value: 10 ppm
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DSEN	
71-43-2 benzene	
PEL (USA)	Short-term value: 15* mg/m ³ , 5* ppm Long-term value: 3* mg/m ³ , 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)
REL (USA)	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A
TLV (USA)	Short-term value: 8 mg/m ³ , 2.5 ppm Long-term value: 1.6 mg/m ³ , 0.5 ppm Skin; BEI
EL (Canada)	Short-term value: 2.5 ppm Long-term value: 0.5 ppm Skin; ACGIH A1; IARC 1
EV (Canada)	Short-term value: 2.5 ppm Long-term value: 0.5 ppm Skin
LMPE (Mexico)	Short-term value: 2.5 ppm Long-term value: 0.5 ppm A1, PIEL, IBE

91-20-3 Naphthalene	
PEL (USA)	Long-term value: 50 mg/m ³ , 10 ppm
REL (USA)	Short-term value: 75 mg/m ³ , 15 ppm Long-term value: 50 mg/m ³ , 10 ppm
TLV (USA)	Long-term value: 52 mg/m ³ , 10 ppm Skin; BEI
EL (Canada)	Long-term value: 10 ppm Skin; IARC 2B
EV (Canada)	Short-term value: 78 mg/m ³ , 15 ppm Long-term value: 52 mg/m ³ , 10 ppm
LMPE (Mexico)	Short-term value: 15 ppm Long-term value: 10 ppm A4, PIEL

14808-60-7 Quartz	
PEL (USA)	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL (USA)	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m ³ *as respirable fraction
EL (Canada)	Long-term value: 0.025 mg/m ³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m ³ *respirable fraction
LMPE (Mexico)	Long-term value: 0.025* mg/m ³ A2, *fracción respirable

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· Ingredients with biological limit values:

1330-20-7 Xylene

BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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108-88-3 Toluene

BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

100-41-4 Ethylbenzene

BEI (USA)	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

110-54-3 n-hexane

BEI (USA)	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis
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71-43-2 benzene

BEI (USA)	25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background)
	500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

· Exposure controls

· General protective and hygienic measures:

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The usual precautionary measures for handling chemicals should be followed.

- Keep away from foodstuffs, beverages and feed.
- 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:**

- Take precautionary measures against static discharge.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.

· **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:** Grey to Black.
- **Odor:** Petroleum-like
- **Odor threshold:** Not determined.

- **pH-value:** Not determined.
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** 152-176 °C (305.6-348.8 °F)

- **Flash point:** 40.6 °C (105.1 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits	
Lower:	0.9 Vol %
Upper:	7 Vol %
· Oxidizing properties:	Non-oxidizing.
· Vapor pressure at 20 °C (68 °F):	2 mmHg
· Density:	
Relative density:	1.08
Vapor density:	4.7 (Air = 1)
Evaporation rate:	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic at 40 °C (104 °F):	<20.5 mm ² /s
· Other information	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**
Flammable liquid and vapor.
Reacts violently with oxidizing agents.
Toxic fumes may be released if heated above the decomposition point.
Used empty containers may contain product gases which form explosive mixtures with air.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**
Under fire conditions only:
Carbon monoxide and carbon dioxide

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:**

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64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4h	>14 mg/l (rat)

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)

64742-47-8 Aliphatic Hydrocarbon

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat)
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1330-20-7 Xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

64742-95-6 Hydrocarbons,C9,aromatics

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)

98-82-8 Cumene

Oral	LD50	1400 mg/kg (rat)
Dermal	LD50	12300 mg/kg (rabbit)
Inhalative	LC50/4h	24.7 mg/l (mouse)

108-88-3 Toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4h	5320 mg/l (mouse)

100-41-4 Ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)

71-43-2 benzene

Oral	LD50	4894 mg/kg (rat)
Inhalative	LC50/4h	9980 mg/l (mouse)

91-20-3 Naphthalene

Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Causes eye irritation.
- **Sensitization:** Contains 2-butanone oxime, Cobalt carboxylate. May produce an allergic reaction.

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

98-82-8 | Cumene

2B

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100-41-4	Ethylbenzene	2B
71-43-2	benzene	1
91-20-3	Naphthalene	2B
14808-60-7	Quartz	1
75-56-9	propylene oxide	2B
27253-31-2	Cobalt carboxylate	2B

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

98-82-8	Cumene	R
71-43-2	benzene	K
91-20-3	Naphthalene	R
14808-60-7	Quartz	K
75-56-9	propylene oxide	R

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

71-43-2	benzene
---------	---------

· **Probable route(s) of exposure:**

- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.

· **Germ cell mutagenicity:** May cause genetic defects.

· **Carcinogenicity:** May cause cancer.

· **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.

· **STOT-single exposure:** May cause respiratory irritation.

· **STOT-repeated exposure:**

Causes damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Aspiration hazard:** May be fatal if swallowed and enters airways.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity**

Toxic to aquatic life with long lasting effects.

1330-20-7 Xylene

LC50 | 13.4 mg/l (pimephales promelas)

100-41-4 Ethylbenzene

EC50 | 1-10 mg/kg (daphnia)

LC50 | 1-10 mg/l (Green Algae (chlorophyta))

4.2 mg/l (Oncorhynchus mykiss)

91-20-3 Naphthalene

LC50 | 1-10 mg/l (daphnia)

· **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.

· **Bioaccumulative potential:** No relevant information available.

· **Mobility in soil:** No relevant information available.

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- **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"> · UN-Number · DOT · ADR/RID/ADN, IMDG, IATA | <p>Not regulated.
UN1268</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR/RID/ADN, IMDG, IATA | <p>Not regulated.
PETROLEUM PRODUCTS, N.O.S.</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT · Class | <p>Not regulated.</p> |
| <ul style="list-style-type: none"> · ADR/RID/ADN <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label | <p>3 (F1)
3</p> |
| <ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label | <p>3
3</p> |
| <ul style="list-style-type: none"> · Packing group · DOT | <p>Not regulated.</p> |

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· **ADR/RID/ADN, IMDG, IATA** III

· **Environmental hazards** Product contains environmentally hazardous substances: nonane, trimethylbenzene

· **Marine pollutant:**



Yes

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 30

· **EMS Number:** F-E,S-E

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

· **Transport/Additional information:**

· **DOT**

· **Remarks:** Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

· **ADR/RID/ADN**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 5.2.1.8.1)

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 2.10.2.7)

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each / 10 L net.

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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):**

95-63-6	1,2,4-trimethylbenzene
1330-20-7	Xylene
98-82-8	Cumene
108-88-3	Toluene
100-41-4	Ethylbenzene
110-54-3	n-hexane

· **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):**

75-56-9	propylene oxide	10000
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· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

98-82-8	Cumene
100-41-4	Ethylbenzene
71-43-2	benzene
91-20-3	Naphthalene
14808-60-7	Quartz
75-56-9	propylene oxide

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

None of the ingredients are listed.

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

110-54-3	n-hexane
71-43-2	benzene
109-86-4	2-methoxyethanol
110-80-5	2-ethoxyethanol

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

108-88-3	Toluene
71-43-2	benzene
109-86-4	2-methoxyethanol
110-80-5	2-ethoxyethanol

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

95-63-6	1,2,4-trimethylbenzene	II
1330-20-7	Xylene	I
98-82-8	Cumene	D, CBD
108-88-3	Toluene	II
100-41-4	Ethylbenzene	D
110-54-3	n-hexane	II
71-43-2	benzene	A, K/L
91-20-3	Naphthalene	C, CBD

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

98-82-8	Cumene	2B
100-41-4	Ethylbenzene	2B
71-43-2	benzene	1
91-20-3	Naphthalene	2B
14808-60-7	Quartz	1
27253-31-2	Cobalt carboxylate	2B
75-56-9	propylene oxide	2B

· **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
- Flam. Sol. 2: Flammable solids – Category 2
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
- Skin Sens. 1: Skin sensitisation – Category 1
- Muta. 1B: Germ cell mutagenicity – Category 1B
- Carc. 1A: Carcinogenicity – Category 1A
- Carc. 2: Carcinogenicity – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (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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